

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT **TRIPPLICATE***
(Other instructions on
reverse side)

5. Lease Designation and Serial No.

U-45927

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

Bug.

9. Well No.

9

10. Field and Pool or Wildcat
Development11. Sec., T., R., M., or Blk.
and Survey or Area

S.18, T.36S., R.26E.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. Type of Well

Oil
Well ☒Gas
Well ☐

Other

Single
Zone ☐Multiple
Zone ☐

2. Name of Operator

Wexpro Company

3. Address of Operator

P.O. Box 1129, Rock Springs, Wyoming 82901

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface

NE 1/4 NE 1/4 Section 18, T.36S., R.26E., 497' FNL

At proposed prod. zone 870' FEL

14. Distance in miles and direction from nearest town or post office*

15 miles northeast to Dove Creek

12. County or Parrish

San Juan

13. State

Utah

15. Distance from proposed*

location to nearest
property or lease line, ft.
(Also to nearest drilg. line, if any)

450'

16. No. of acres in lease

160

17. No. of acres assigned
to this well

18. Distance from proposed location*
to nearest well, drilling, completed,
or applied for, on this lease, ft.May No. 2 Bug TD
3900' NE SW S.7, T.36S.,

19. Proposed depth

5790'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.) R.26E.

GR 6000'

22. Approx. date work will start*

Upon approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4"	9-5/8"	36#	1420'	650 Sks. Reg. "G" cement w/3% CaCl
8-3/4"	5-1/2"	17#	5790'	To be determined from caliper logs

Wexpro Company proposes to drill the subject well to a total depth of 5,790'.

Request administrative approval for an exception well location due to topography.

APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING
DATE: 10/15/80
CB [Signature]

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed

[Signature]

Title

Division Engineer

Date

10/2/80

(This space for Federal or State office use)

Permit No.

Approval Date

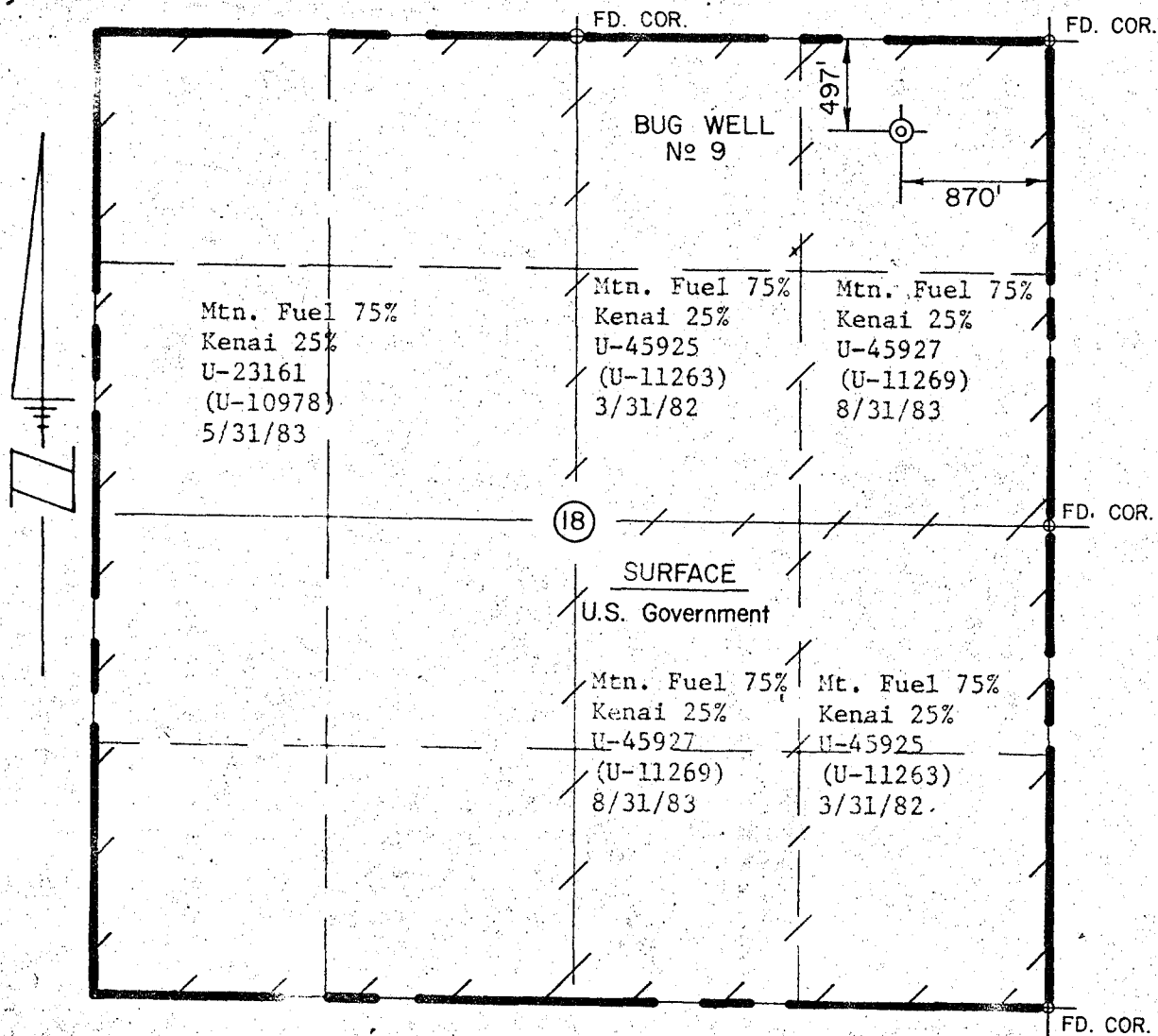
Approved by

Title

Date

Conditions of approval, if any:

T 36 S., R. 26 E., S.L.B. & M
San Juan County, Utah



LOCATION PLAN
SCALE 1"=1000

Surface
Mineral

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge.

LEGEND

- Well
- Stone Corner
- Pipe Corner

Brent J. Bai
ENGINEER

BRENT J. BAI, UTAH L.S. Registration No. 5031

ENGINEERING RECORD		WEXPRO COMPANY	
SURVEYED BY	B & G 9-13-80		
REFERENCES	G.L.O. PLAT <input type="checkbox"/> U.S.G.S. QUAD. MAP <input checked="" type="checkbox"/>	CERTIFIED WELL LOCATION AND WELL SITE PLAN BUG WELL NO. 9	
LOCATION DATA			
FIELD	Bug		
LOCATION: NE 1/4 NE 1/4, Sec. 18, T. 36 S., R. 26 E., S.L.B. & M. 497' FNL, 870' FEL		DRAWN: B & G 9-15-80 SCALE: 1"=1000 CHECKED: CRW APPROVED: RWH	
San Juan County, Utah			
WELL ELEVATION: 6036 "as graded" by electronic vertical angles from Company Bench Mark.			
		DRWG. NO. M-15544 1/4	

DEVELOPMENT PLAN FOR U.S.G.S. APPROVAL OF SURFACE USE
WEXPRO DRILLING WELLS

Well Name: Bug Well No. 9

Field or Area: Bug - San Juan County, Utah

1. Existing Roads:

A) Proposed well site as staked: Refer to well location plat no. M-15544, well pad layout map no. M-15545 and area map no. M-15548 for location of well, access road, cuts and fills, directional reference stakes, etc.

B) Route and distance from nearest town or locatable reference point to where well access route leaves main road: Refer to area map no. M-15548. From the well to Dove Creek, Colorado, is approximately 15 miles northeast.

C) Access road to location: Refer to well location plat no. M-15544 and area map no. M-15548 for access road. (Color coded red for existing road and blue for road to be constructed.

D) If exploratory well, all existing roads within a 3-mile radius of well site:
Not an exploratory well.

E) If development well, all existing roads within a 1-mile radius:
See area map M-15548

F) Plans for improvement and/or maintenance of existing roads:
No improvements are planned. Maintenance will be performed as necessary to allow safe vehicle passage.

2. Planned Access Road:

A) Width - 20' wide from shoulder to shoulder.

B) Maximum grade - The maximum grade on the road is 8 percent.

C) Turnouts - No turnouts will be constructed.

D) Drainage design - A drainage ditch on the uphill side of the road will be constructed. It will be a minimum of one foot below the surface of the road. No water diversion ditches are anticipated.

E) Location and size of culverts and description of major cuts and fills -

1) 7 major culverts will be necessary across the various drainages in the area. This will be 20" diameter, larger if necessary.

2) Some major cuts and fill will be necessary due to steep topography for the road and well pad.

F) Surfacing material - None anticipated.

G) Necessary gates, cattle guards or fence cuts - None

H) New or reconstructed roads - The new road to be constructed is center line flagged.

3. Location of Existing Wells - Refer to area map no. M-15548

A) Water wells - Bug Well No. 3 (NW 1/4 Section 7, T.36S., R.26E.) is a dry hole and is being considered for use as a water well.

- B) Abandoned wells - None within the area.
- C) Temporarily abandoned wells - None within the area.
- D) Disposal wells - None within the area.
- E) Drilling wells - None within the area.
- F) Producing wells - Bug Well No. 1, Section 12, T.36S., R.26E.
Bug Well No. 4, Section 16, T.36S., R.26E.
May No. 2 Bug, Section 7, T.36S., R.26E.
- G) Shut-in wells - None within the area.
- H) Injection wells - None within the area.
- I) Monitoring or observation wells for other resources - None within the area.

4. Location of Existing and/or Proposed Facilities - Refer to area map no. M-15548

- A) 1) Tank Batteries - None.
- 2) Production Facilities - Planned production facilities at site of Bug Well No.3 and north of Bug Well No. 4.
- 3) Oil Gathering Lines - In planning stage.
- 4) Gas Gathering Lines - In planning stage.
- 5) Injection Lines - In planning stage.
- 6) Disposal Lines - In planning stage.
- B) 1) Proposed location and attendant lines by flagging if off the well pad -
If this well is productive, application for right-of-way will be made at that time and will likely follow the access road route.
- 2) Dimensions of facilities - Refer to Map M-15545.
- 3) Construction methods and materials - The on-location pipelines will be buried approximately 30". If the well is productive, a central processing site will be established to handle this well and any other productive wells in the area.
- 4) Protective measures and devices to protect livestock and wildlife -
All sump pits will be fenced. The fence shall be woven wire at least 48-inches high and within 4-inches of the ground. If oil is in the sump pit, the pit will be overhead flagged to keep birds out.

- C) Plans for rehabilitation of disturbed area no longer needed for operations after construction is completed - Areas of none use will be restored and reseeded as recommended by the B.L.M.

5. Location and Type of Water Supply -

- A) Location of Water - The Roy Gilbreth water pond in Section 5, T.36S, R.26E.

- B) Method of Transporting Water - To be hauled by tank trucks over existing and proposed access roads.

- C) Water Well to be Drilled on Lease - None to be drilled.

6. Source of Construction Material - None anticipated.

- A) Information - None

- B) Identify if from Federal or Indian land - None

- C) Where materials are to be obtained and used - None

- D) Access roads crossing Federal or Indian lands - As described above

7. Method for Handling Waste Disposal -

A-D) Cuttings and drilling fluids will be placed in the mud pit. Any produced liquids will be placed in test tanks and hauled out by tank trucks. A chemical toilet will be installed on the well pad. The mud pit shall be constructed with at least 1/2 of its holding capacity below ground level. It shall be fenced as described in Section 10-A.

E) Garbage and other waste material will be placed in the burn pit and covered over with wire mesh to contain the garbage.

F) After drilling operations have been completed, the location will be cleared of litter, and the trash will be burned in the burn pit. The burn pit will be covered over. The mud pit liquids will be allowed to evaporate. Any fill material on the mud pit will be compacted with heavy equipment.

8. Ancillary Facilities - No camps or airstrips exist now, and Wexpro Company has no plans to build them.

9. Well Site Layout - Refer to drawing no. M-15545

- 1) Refer to drawing no. M-15546 for cross section of drill pad and mud pit with cuts and fills.

2, 3) Refer to the location plat for location of mud tanks, reserve pit, burn pit, pipe racks, living facilities, soil material stockpile, rig orientation, parking areas and access roads.

- 4) The mud pit is to be unlined.

10. Plans for Restoration of Surface -

A) After drilling operations, the well site will be cleared and cleaned and the burn pit filled in. Should the well be a dry hole, the surface will be restored to the extent that it will blend in with the landscape. Prior to the onset of drilling, the mud pit shall be fenced on three sides. Immediately upon completion of drilling, the fourth side of the pit will be fenced. The fence will be maintained until restoration.

B) Revegetation and rehabilitation of the location and access road will be done to comply with Bureau of Land Management recommendations.

C) Prior to rig release, pits will be fenced and so maintained until clean up. The trash pit will be dug so when filled, the depth will be at least three-feet below the finished contour of the location.

D) If oil is in the mud pit, overhead flagging will be installed to keep birds out.

E) Clean up will begin within two months after drilling operations have been completed and the land will be restored at this time.

11. Other Information -

A) The location is on a bench between Cedar Point and the bottom of Monument Canyon. The soil is sandy with large boulders in the area. Thick Juniper trees and various grasses cover the area.

B) The location and access road are situated on Federal land.

C) Monument Creek flows approximately 700 feet to the southeast of the location. No known archaeological, historical or cultural sites exist within the area to my knowledge.

12. Lessee's or Operator's Representative -

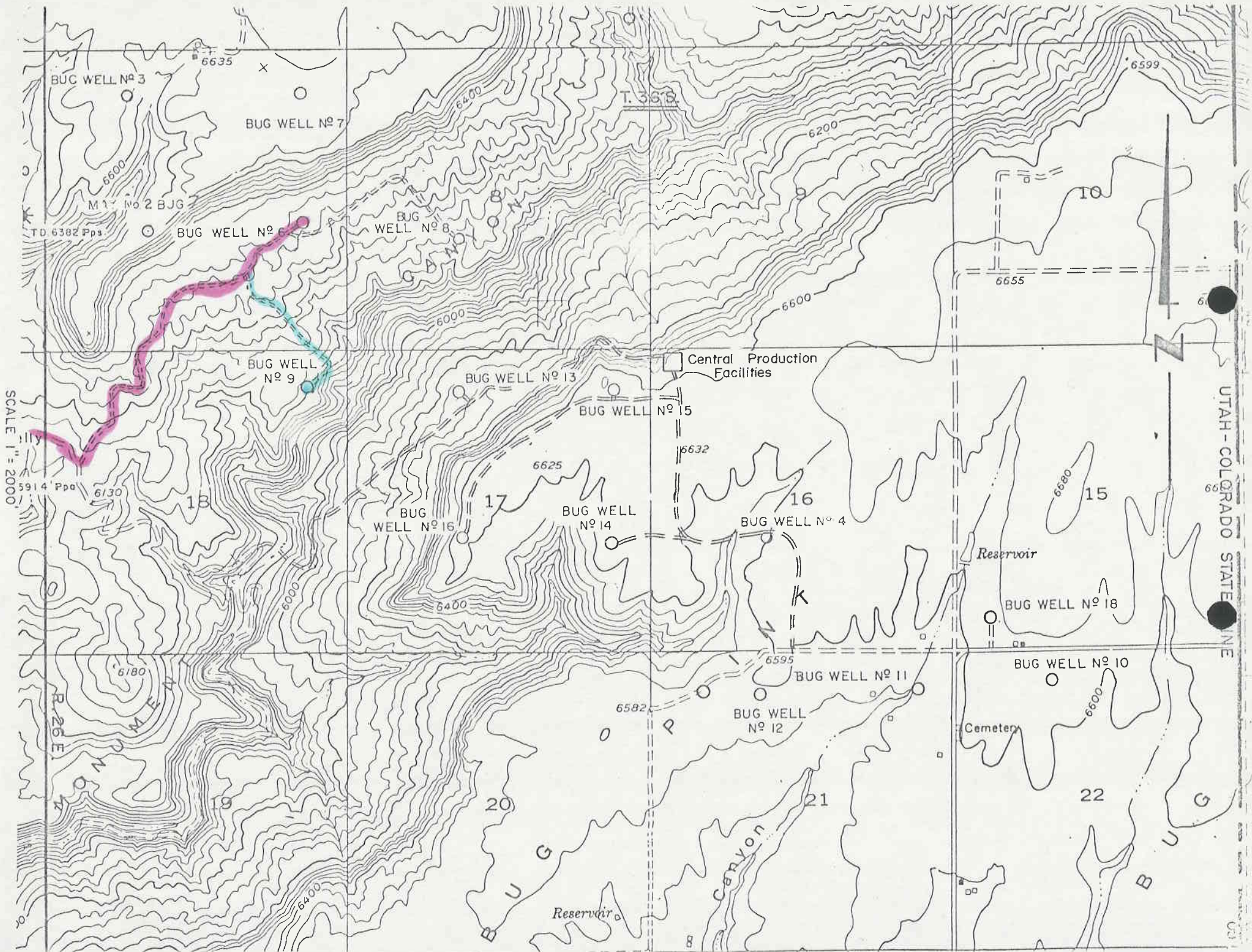
A. J. Maser, Drilling Superintendent, P. O. Box 1129, Rock Springs, Wyoming 82901, Telephone No. 307-362-5611.

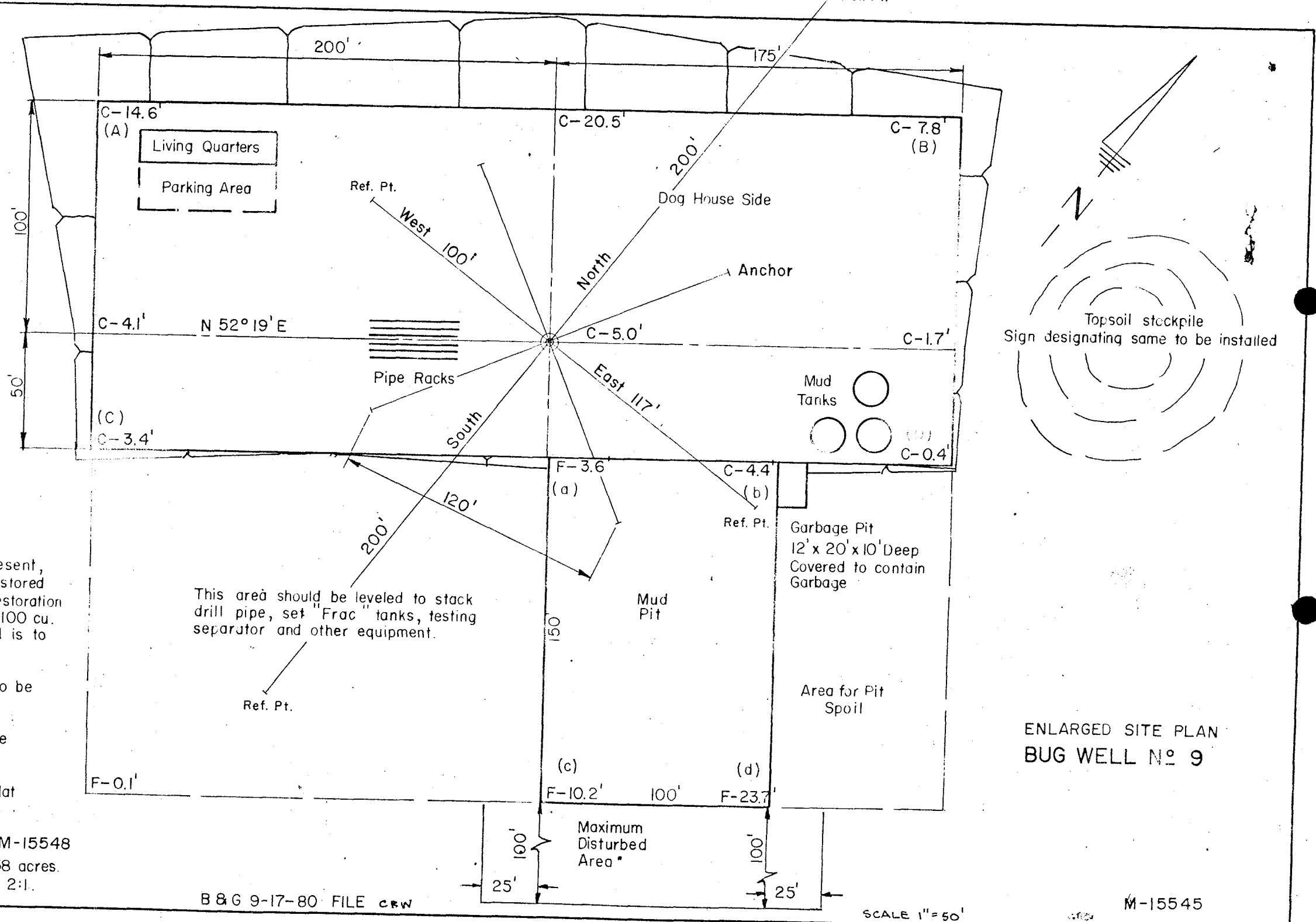
13. Certification -

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Wexpro Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date 10/2/80

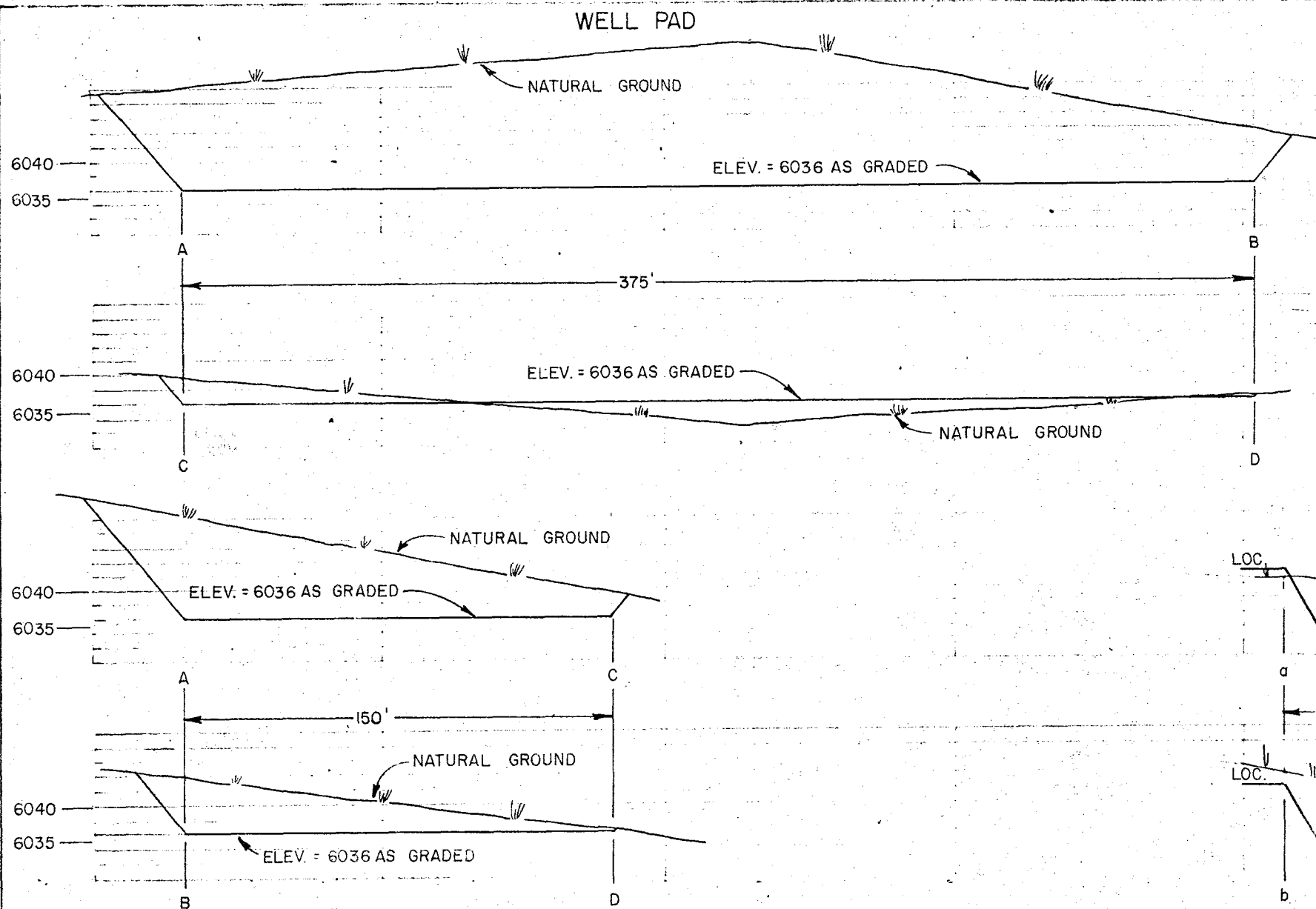
Name *A. J. Maser*
A. J. Maser
Title Drilling Superintendent





ENLARGED SITE PLAN
BUG WELL No 9

M-15545

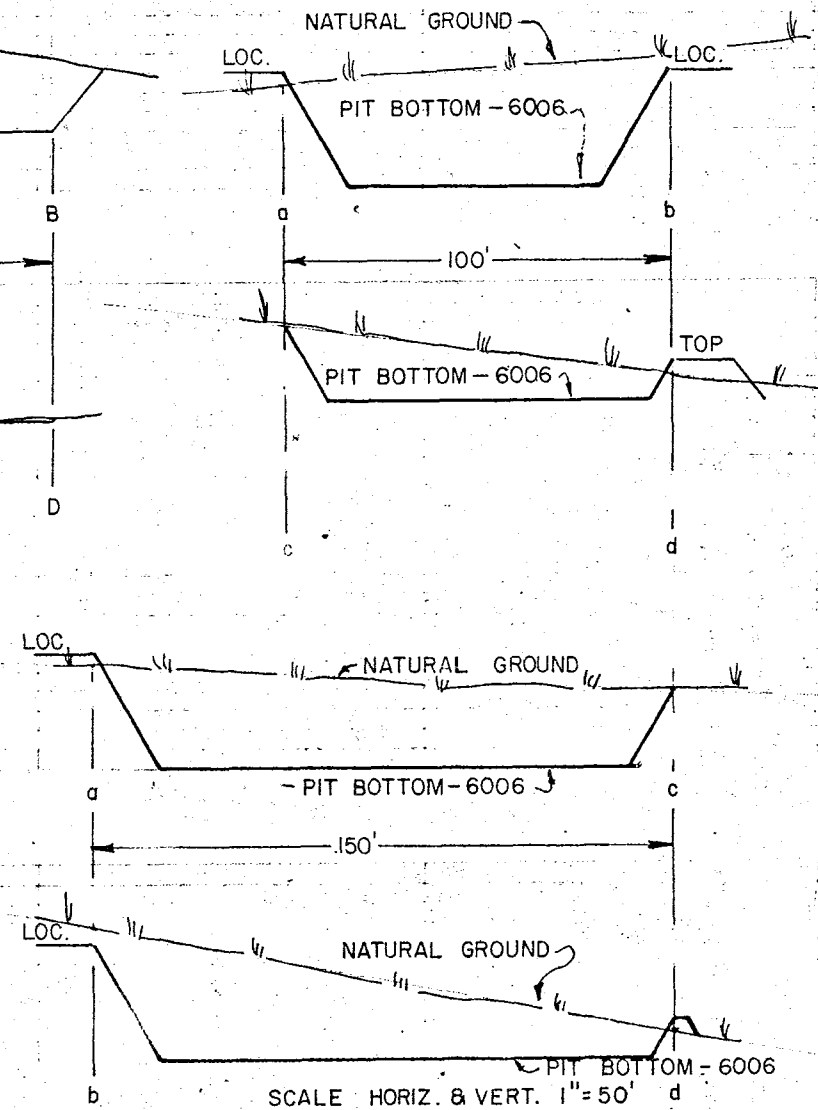


PROFILE SECTION PROFILE GRADE LOCATION

SCALE - HORIZ. : 1" = 50'
VERT. : 1" = 20'

CUTS - 2:1
FILLS - 2:1

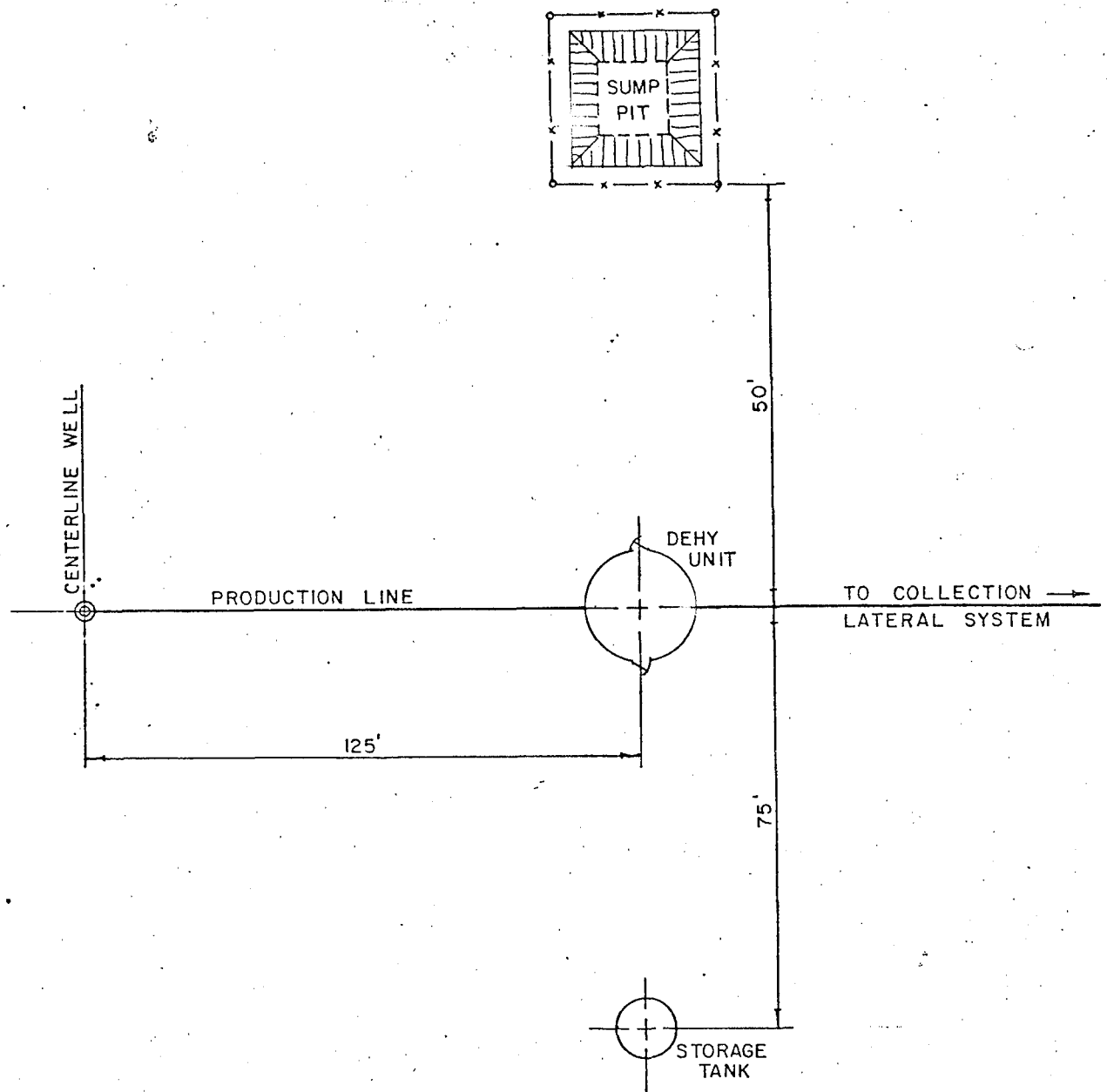
MUD PIT
(UNLINED)



PROFILE SECTIONS
BUG WELL NO. 9

M-15546

9/16/80 B & G



REVISIONS				WEXPRO COMPANY	
NO.	DESCRIPTION	DATE	BY		
				TYPICAL PRODUCTION FACILITIES LAYOUT FOR BUG WELL No 9	
DRAWN: 7/9/76 FJC				SCALE: NONE	
CHECKED:				DRWG. NO. M-12205	
APPROVED:					

WEXPRO COMPANY
BUG WELL NO. 9
LEASE NO.: U-45927
NE NE SECTION 18, T.36S., R.26E.
SAN JUAN COUNTY, UTAH
10-Point Plan

1. The surface formation is Morrison.
2. Estimated tops of important geological markers are:

Morrision	Surface
Entrada	460'
Carmel	600'
Navajo	650'
Chinle	1345'
Shinarump	2060'
Cutler	2320'
Honaker Trail	4060'
Paradox	4745'
Upper Ismay	5240'
Lower Upper Ismay	5405'
(Base 2nd Shale)	
Lower Ismay Shale	5475'
Lower Ismay Porosity	5585'
"B" Zone	5600'
Desert Creek	5650'
Lower Bench	5695'
Desert Creek Porosity	5700'
Salt	5785'
Total Depth:	5790'

Objective Reservoir: Lower Upper Ismay, 5405'
Desert Creek Porosity, 5700'

Other Possible Producing Zones: Honaker Trail, 4060'
Lower Ismay Porosity, 5585'

3. Estimated depths of anticipated water, oil or gas or other mineral bearing formations expected to be encountered:

No water flows anticipated. Surface casing is designed to protect aquifer in the Navajo sandstone.

Oil or gas expected in Objective Reservoir -- Lower Upper Ismay, 5405'; Desert Creek Porosity, 5700'. Also, the Honaker Trail, 4060', and the Lower Ismay Porosity, 5585', may be productive.

No mineral bearing formations anticipated.

Wexpro Company
Bug Well No. 9
Lease No.: U-45927
NE NE S.18, T.36S., R.26E.
San Juan County, Utah
10-Point Plan

Page Two

4. Casing Program:

<u>Proposed</u>	<u>Footage</u>	<u>Size</u>	<u>Grade</u>	<u>Weight</u>	<u>Condition</u>	<u>Thread</u>
Surface	1420'	9-5/8"	K-55	36#	New	8rd ST&C
Production	5790'	5-1/2"	K-55	17#	New	8rd LT&C

Cement Program:

Surface: 940 sacks of Regular Type "G" cement plus 70% excess cement treated with 5% Dowell D-43A or 3% Calcium Chloride.

Production: Cement volumes and composition to be determined from caliper logs. Cement casing with 50-50 Pozmix "A" cement. Cement to be set 1000' above the uppermost producing zone.

5. Operator's minimum specifications for pressure control equipment requires a 10", 3000 psi annular preventer, and a 10", 3000 psi double gate blowout preventer from the surface to the total depth. See attached diagram. Blowout preventers will be tested by rig equipment after each string of casing is run. All ram-type preventers will have hand wheels installed and operative at the time the preventers are installed.
6. Fresh water with minimum properties from surface to total depth. Spud mud will be used for the surface hole. A mud de-sander will be used from under the surface casing to total depth to remove all undesirable solids from the mud system and to keep the mud weight to a minimum. The mud weight will be brought up to 11.7 ppg before drilling into the Desert Creek zone at 5650'. Mud weight will start to increase at 5500'.
- A fully manned logging unit will be used from 3800' to total depth. The contractor will catch 10-foot samples from surface to 3800'.
- Sufficient mud materials to maintain mud requirements and to control minor lost circulation and blowout problems will be stored at the well site.
7. Auxiliary equipment will consist of: (1) A manually operated kelly cock; (2) No floats at bit; (3) Mud will be monitored visually from 0' to total depth; and, (4) Full opening Shafer floor valve manually operated.
8. Four drill stem tests: 1) Honaker Trail 4060'
 2) Lower Upper Ismay 5405'
 3) Lower Ismay Porosity 5585'
 4) Desert Creek Porosity 5700'

Cores: 60', Desert Creek Porosity, 5700'

Wexpro Company
Bug Well No. 9
Lease No.: U-45927
NE NE S.18, T.36S., R.26E.
San Juan County, Utah
10-Point Plan

Page Three

- Mechanical Logs:
1. Dual Induction Lateralog from total depth to surface pipe.
 2. Sidewall Neutron with caliper and Gamma Ray from total depth to surface pipe. Run Gamma Ray to surface.
 3. Continuous Dipmeter from total depth to 3585' (minimum run). Run Gamma Ray correlation log with Dipmeter.

During drill stem testing or when a completion rig is completing a well, some flaring of natural gases or produced gases will be necessary.

9. No abnormal temperatures or Hydrogen Sulfide is anticipated. No abnormal pressures anticipated except the Desert Creek Porosity at 5700'. The pressure will be controlled with a mud weight of 11.7 ppg before drilling into the Desert Creek Porosity zone.
10. The anticipated spud date is upon approval from the State of Utah and the U. S. Geological Survey. Duration of drilling will be approximately 25 days with 2 days completion.

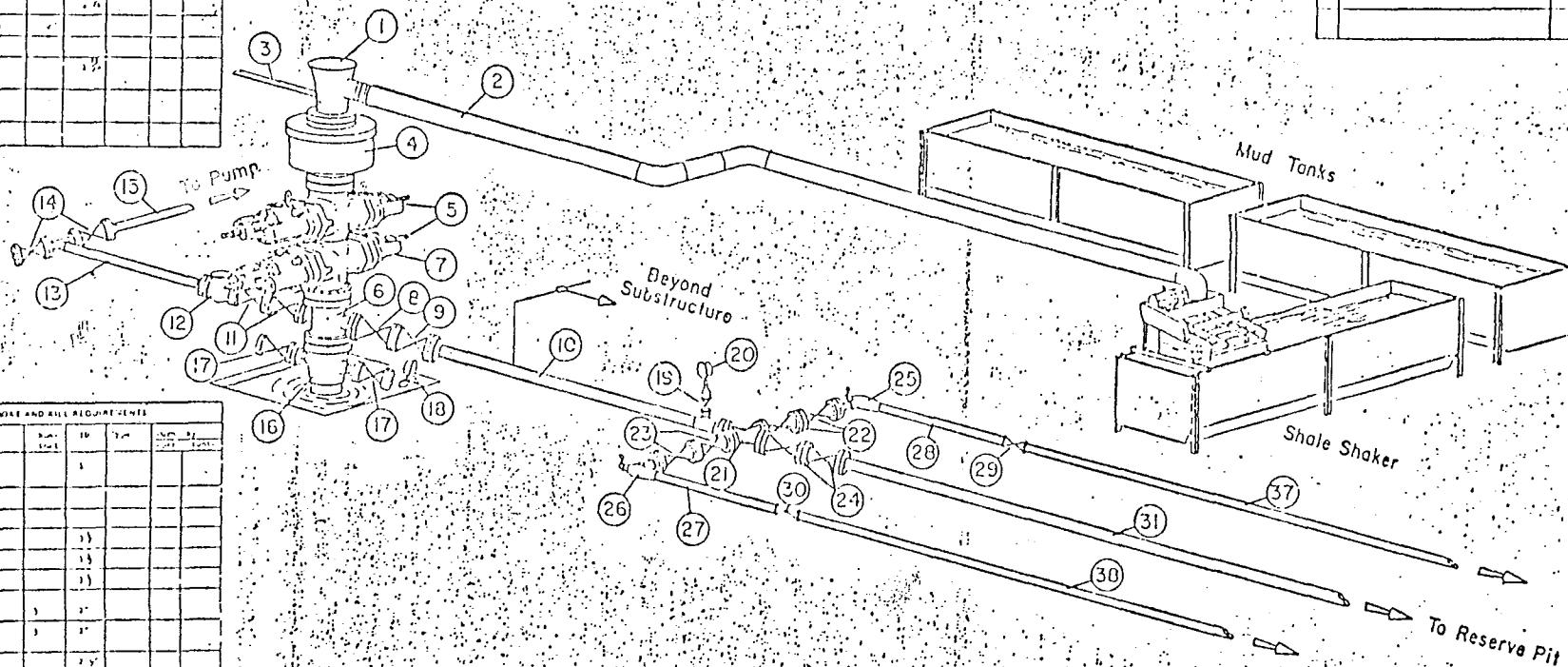
CHECKLIST 2000psi EQUIPMENT

No.	Item	Unit	Qty	Notes
1	Drilling Rig			
2	Blowout Preventer			
3	Flow Line			
4	Flow Line			
5	Flow Line			
6	Flow Line			
7	Flow Line			
8	Flow Line			
9	Flow Line			
10	Flow Line			
11	Flow Line			
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50	Flow Line			

MOUNTAIN FUEL SUPPLY COMPANY 3000 psi BLOWOUT PREVENTION EQUIPMENT

SPECIAL CHOKES AND WELL REQUIREMENTS	

SPECIAL SLACK REQUIREMENTS	



No.	Item	Unit	Qty	Notes
1	Blowout Preventer			
2	Flow Line			
3	Flow Line			
4	Flow Line			
5	Flow Line			
6	Flow Line			
7	Flow Line			
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DRILL STEM TEST REPORTTest No. & Interval: DST #1 Paradox 5145'-5201' Date 10/18/81Well Name & Location: Bug Well No. 9 NE, NE, Sec. 18, T36S, R26EFormation: Paradox Hole Size 8 3/4"Test Type: Conventional Bottom Hole Testing Co.: HalliburtonMud Properties: Mud Wt: 8.5 Vis: 33 PH 8.5Water Loss 19.2Water Cushion (If any) NoneTimes & Pressures:Time & Date Tool opened: 4:35 P. M. 10/18/81Prewflow: 30 mins. psi F.S.I. 120 mins. psiI.S.I.: 60 mins. psi I.H. psi MisrunI.F.: mins. psi F.H. psiF.F. 60 mins. psiBottom Hole Temperature, °F.Recovery & Description: MisrunBlow on Prewflow: Tool opened w/weak 1" blow after pipe slid 15';
decreased to 1/4" in 10 minutes; dead in 20 minutes and continued throughout
Gas/Fluid to surface: N.G.T.S.Type of flow during valve open (flow period): Tool opened w/no blow and
continued throughoutFluid Recovered: Samples: Quantity: Shipped to: Shipped by:

DRILL STEM TEST REPORT
(page 2)

Test No. 1

Well Name Bug Well No. 9

Flow Measurements & Closed Chamber Data (if any):

<u>Times</u> <u>(mins)</u>	<u>Pressure</u> <u>Measurements</u>	<u>Choke</u> <u>size</u>	<u>Flow</u> <u>Rate</u>	<u>Description</u>
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Remarks: (reason for test failure, abnormalities on charts, water salinity (ppm) etc):

When tool was first set on bottom and opened, it slid 15' through fill to actual bottom. The perforated pipe and collars were plugged off w/fill in some places and the charts were unreadable, due to plugging. The decision was made to retest this zone w/DST #2 and this test was declared a misrun.

DRILL STEM TEST REPORTTest No. & Interval: DST #2 Paradox 5145'-5201' Date 10/19/81Well Name & Location: Bug Well No. 9 NE, NE, Sec. 18, T36S, R26EFormation: Paradox Hole Size 8 3/4"Test Type: Conventional Bottom Hole Testing Co.: HalliburtonMud Properties: Mud Wt: 8.7+ Vis: 42 PH 8.5Water Loss 18Water Cushion (If any) NoneTimes & Pressures:Time & Date Tool opened: 2:45 P. M. 10/19/81Prewflow: 30 mins. 93/120 psi F.S.I. 120 mins. 1201 psi Location
Top ChartI.S.I.: 60 mins. 375 psi I.H. --- 2336 psiI.F.: -- mins. 402 psi F.H. --- 2336 psiF.F. 90 mins. 429 psiBottom Hole Temperature, 120 °F.Recovery & Description:Blow on Prewflow: Tool opened w/weak 3" blow; built to 6" in 10 minutes;
continued 6" blow at 20 minutes; decreased to 4" in 25
minutes; increased to 10" @ end of flowGas/Fluid to surface: N.G.T.G.Type of flow during valve open (flow period): Tool opened w/very weak
blow on surface and remained throughoutFluid Recovered: 270' of drilling mud and 2100 cc. drilling mudSamples: Quantity: 4 samples

Shipped to: _____ Shipped by: _____

DRILL STEM TEST REPORT
(page 2)

Test No. 2

Well Name Bug Well No. 9

Flow Measurements & Closed Chamber Data (if any):

<u>Times</u> <u>(mins)</u>	<u>Pressure</u> <u>Measurements</u>	<u>Choke</u> <u>size</u>	<u>Flow</u> <u>Rate</u>	<u>Description</u>
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Remarks: (reason for test failure, abnormalities on charts, water salinity (ppm) etc):

11

DRILL STEM TEST REPORT

Test No. & Interval: DST #3 5468'-5552' Date 10/21/81

Well Name & Location: Bug Well No. 9 NE, NE, Sec. 18, T36S, R26E

Formation: Lower Upper Ismay Hole Size 8 3/4"

Test Type: Conventional Bottom Hole Testing Co.: Halliburton

Mud Properties: Mud Wt: 12.5+ Vis: .41 PH 11

Water Loss 12

Water Cushion (If any) None

Times & Pressures:

Time & Date Tool opened: 7:18 P. M. 10/21/81

Preflow: 20 mins. 41/54 psi F.S.I. 120 mins. 149 psi Location
5447

I.S.I.: 60 mins. 149 psi I.H. --- 3560 psi

I.F.: -- mins. 81 psi F.H. --- 3560 psi

F.F. 60 mins. 95 psi

Bottom Hole Temperature, 124 °F.

Recovery & Description:

Blow on Preflow: Tool opened w/ a weak 1" blow (1/4 oz.); remained throughout

Gas/Fluid to surface: N.G.T.S.

Type of flow during valve open (flow period): Tool opened w/a very weak surface blow; died 34 minutes into flow; remained dead

Fluid Recovered: Pipe rec. 90' heavy drilling mud. Sampler: 2240 cc. heavy drilling mud

Samples: Quantity: 2 1 @ top of pipe recovery 1 @ sampler

Shipped to: _____ Shipped By: Halliburton

DRILL STEM TEST REPORT
(page 2)

Test No. 3

Well Name Bug Well No. 9

Flow Measurements & Closed Chamber Data (if any):

<u>Times</u> <u>(mins)</u>	<u>Pressure</u> <u>Measurements</u>	<u>Choke</u> <u>size</u>	<u>Flow</u> <u>Rate</u>	<u>Description</u>
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Remarks: (reason for test failure, abnormalities on charts, water salinity (ppm) etc):

1. Tester ran preflow 10 minutes short by mistake

DRILL STEM TEST REPORTTest No. & Interval: DST #4 5578'-5630' Date 10/23/81Well Name & Location: Bug Well No. 9 NE, NE, Sec. 18, T36S, R26EFormation: Lower Ismay Porosity Hole Size 8 3/4"Test Type: Conventional Bottom Hole Testing Co.: HalliburtonMud Properties: Mud Wt: 12.6 Vls: 44 PH 10Water Loss 12.4Water Cushion (If any) NoneTimes & Pressures:Time & Date Tool opened: 7:08 A. M. 10/23/81Prewflow: 30 mins. 53/161 psi F.S.T. 180 mins. psiLocation
5557I.S.I.: 60 mins. 429 psi I.H. --- 3624 psiI.F.: -- mins. 107 psi F.H. --- 3624 psiF.F. 90 mins. 161 psiBottom Hole Temperature, 130 °F.Recovery & Description:Blow on Prewflow: Tool opened w/weak blow; increased to good 10" blow @ 5 minutes; built to strong blow to B.O.B. @ 16 minutes; remained throughout N.G.T.S.Gas/Fluid to surface: G.T.S. 52 minutes into final flow, T.S.T.M.Type of flow during valve open (flow period): Tool opened w/strong blow to B.O.B. 2 lb. in 2 minutes; decreased to 1 lb. in 5 minutes. Flow died in 15 minutesFluid Recovered: Closed surface choke w/fair 10" blow increased to strong blow @ 32 minutes; G.T.S. 52 minutes into flow T.S.T.M. 400' gas cut mud.Samples: Quantity: 3 SamplesShipped to: _____ Shipped by: Halliburton

DRILL STEM TEST REPORT (page 2)

Test No. #4

Well Name Bug Well No. 9

Flow Measurements & Closed Chamber Data (if any):

<u>Times</u> <u>(mins)</u>	<u>Pressure</u> <u>Measurements</u>	<u>Choke</u> <u>size</u>	<u>Flow</u> <u>Rate</u>	<u>Description</u>
-------------------------------	--	-----------------------------	----------------------------	--------------------

Remarks: (reason for test failure, abnormalities on charts, water salinity (ppm) etc):

	<u>Resis.</u>	<u>Chlorides</u>
Pit	.673 @ 71°F	4300
Top of Fluid	.644 @ 71°F	
Top of Tools	.213 @ 70°F	
Sampler: Not recorded from sampler (too thick)		

BUG WELL	9	1	5145' - 5202'	WEXPRO
Lease Name	Well No.	Test No.	Tested Interval	Lease Owner/Company Name
981946	FARMINGTON		10-18-81	2033-2032
Ticket Number	Camp		Date	Gauge Number(s)



TICKET NO. 981946 DATE 10-18-81 HALLIBURTON CAMP FARMINGTON

LEASE OWNER WEXPRO IC

LEASE NAME BUG WELL WELL NO. 9 TEST NO. 1

LEGAL LOCATION SEC. 18 - 36S - 26E FORMATION TESTED PARADOX

FIELD AREA BUG FIELD COUNTY SAN JUAN STATE UTAH

TYPE OF D.S.T. OPEN HOLE

TESTER(S) BEN KEMP

WITNESS ROBERT MASON DRILLING CONTRACTOR ARAPAHOE

DEPTHS MEASURED FROM KELLY BUSHING CASING PERFS (FT.)

TYPE AND SIZE OF GAS MEASURING DEVICE 6" POSITIVE CHOKE

CUSHION DATA

TYPE AMOUNT WEIGHT (lb./gal.)

TYPE AMOUNT WEIGHT (lb./gal.)

RECOVERY (ft. or bbl.):

180' MUD AND CUTTINGS

FLUID PROPERTIES

SOURCE	RESISTIVITY	CHLORIDES (PPM)	SOURCE	RESISTIVITY	CHLORIDES (PPM)
	@ °F			@ °F	
	@ °F			@ °F	
	@ °F			@ °F	

REMARKS: SLIDE 15' AFTER TOOL OPENED BEFORE REACHING BOTTOM - BOTTOM THREE COLLARS FULL OF CUTTINGS AND VERY HEAVY MUD - PLUGGING IN TOOLS DURING TEST. SEE PRODUCTION TEST DATA SHEET.

TICKET NO. 981946 DATE 10-18-81 ELEVATION (FT.) 6000'
 TOP OF TESTED INTERVAL (ft.) 5145' BOTTOM OF TESTED INTERVAL (ft.) 5202'
 NET PAY (ft.) 5' TOTAL DEPTH (ft.) 5202'
 HOLE OR CASING SIZE (in.) 8 3/4" MUD WEIGHT (lb./gal.) 9 VISCOSITY (sec.) 33-35
 SURFACE CHOKE (in.) BUBBLE HOSE BOTTOM CHOKE (in.) .75"
 OIL GRAVITY @ °F GAS GRAVITY—ESTIMATED ACTUAL

SAMPLER DATA

PRESSURE (P.S.I.) CUBIC FT. OF GAS

C.C.'s OF OIL PLUGGED C.C.'s OF WATER

C.C.'s OF MUD TOTAL LIQUID C.C.'s

GAS/OIL RATIO (cu. ft. per bbl.)

FROM SAMPLER OTHER

TEMPERATURE (°F)

ESTIMATE

ACTUAL 120

DEPTH (ft.)

H.T.-500 ☐; THERMOMETER ☒;
 T.E. OR R.T.-7 ☐; OTHER ☐

SERIAL NO.

RECORDER AND PRESSURE DATA

CHARTS READ BY BEN KEMP

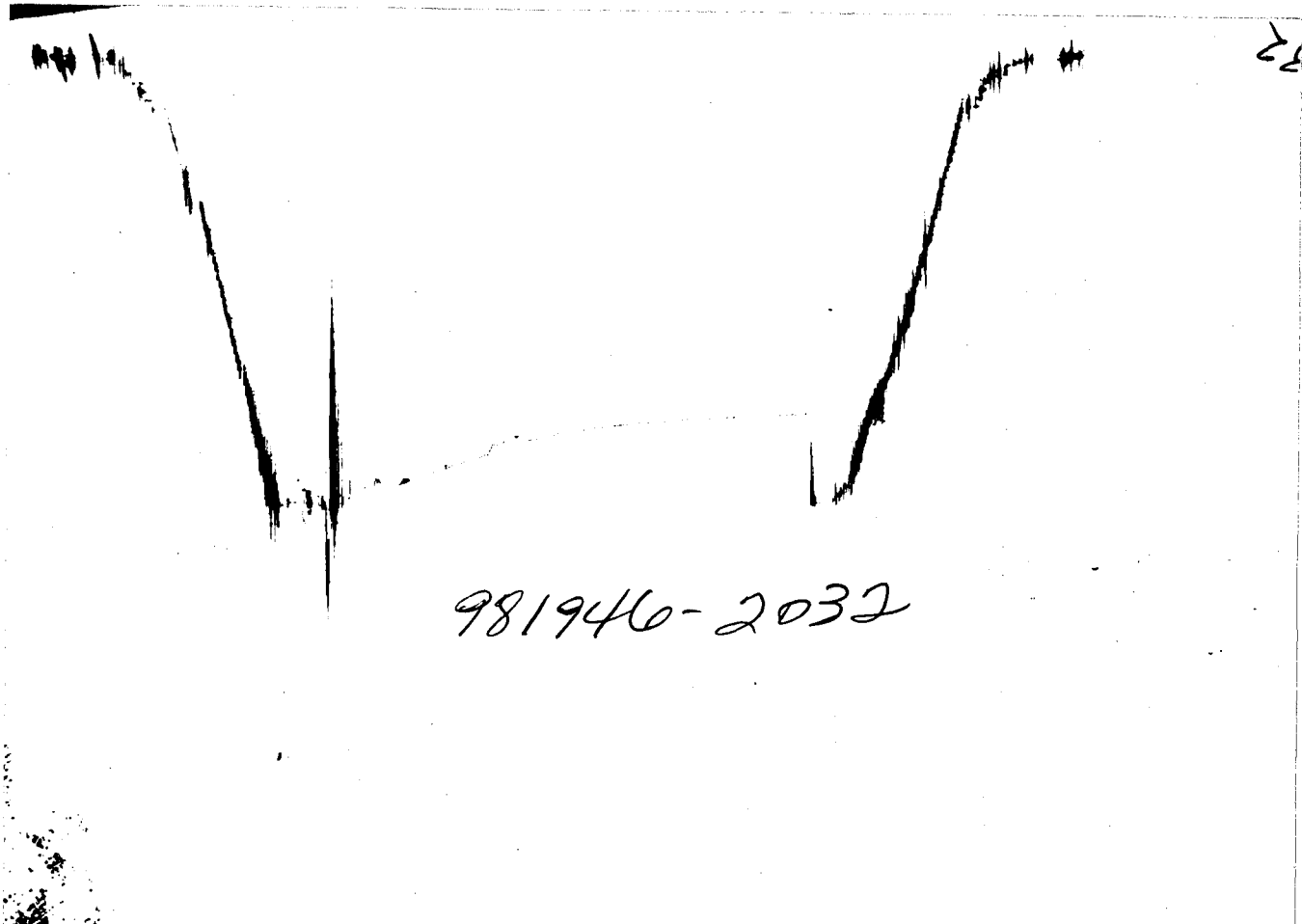
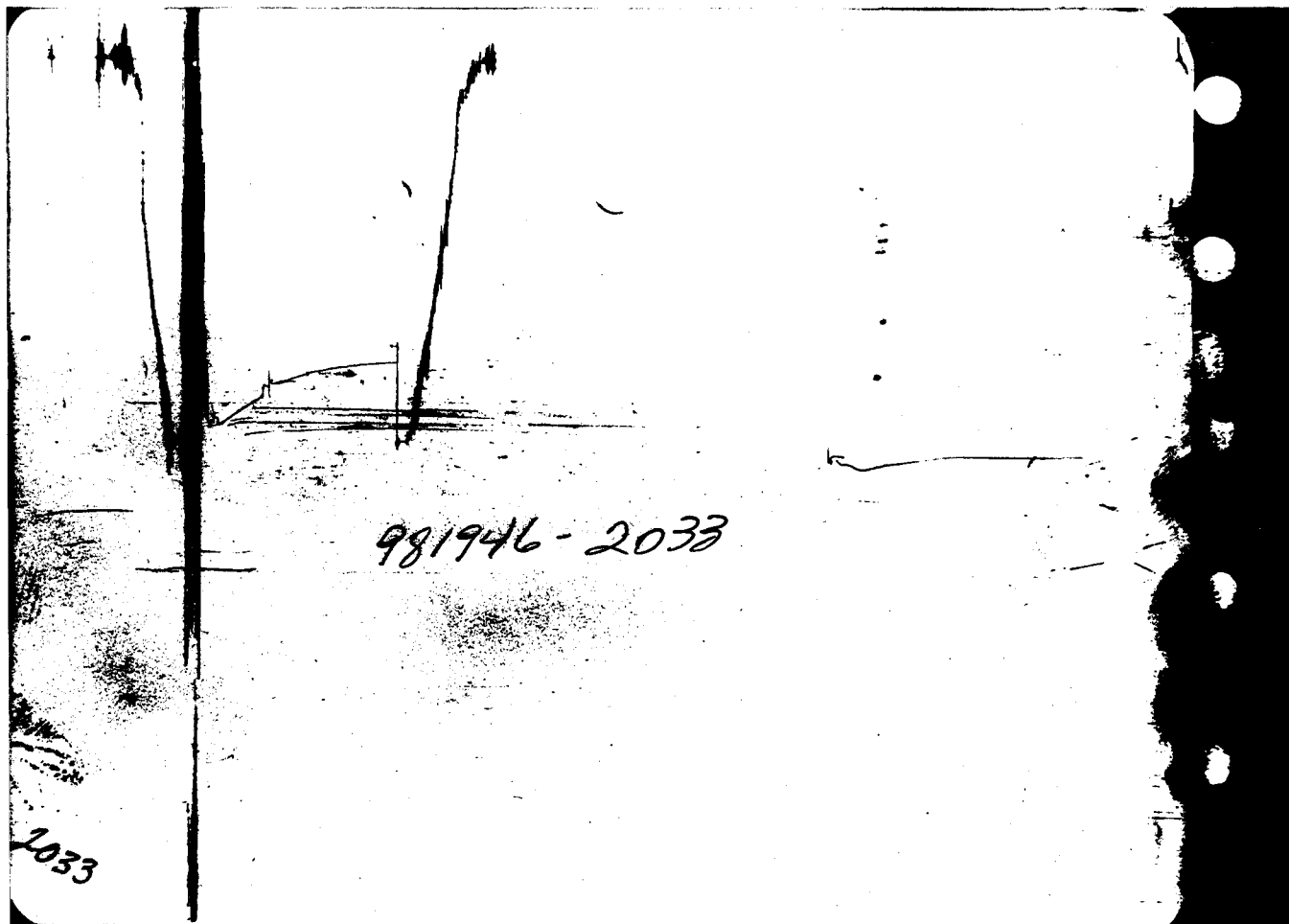
DATA APPROVED BY ROBERT MASON

RECORDERS	GAUGE NUMBER	2033	2032			TIMES (00:00-24:00 HRS.)	
	GAUGE TYPE	1	2			TOOL OPENED	16:35
	GAUGE DEPTH (ft.)	5124'	5198'			DATE	10-18
	CLOCK NUMBER	14128	10445			BYPASS OPENED	21:05
	CLOCK RANGE (HR.)	24	12			DATE	10-18
PRESSURES	INITIAL HYDROSTATIC	2269.2	2318.3			PERIOD	MINUTES
	INITIAL FLOW					XXX	XXX
	1st. FINAL FLOW					1st. FLOW	30
	CLOSED-IN					1st. C.I.P.	60
	INITIAL FLOW					XXX	XXX
	2nd. FINAL FLOW					2nd. FLOW	60
	CLOSED-IN					2nd. C.I.P.	120
	INITIAL FLOW					XXX	XXX
	3rd. FINAL FLOW					3rd. FLOW	
	CLOSED-IN					3rd. C.I.P.	
	FINAL HYDROSTATIC	2255.9	2310.3			XXX	XXX

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

FORM 182-R1—PRINTED IN U.S.A.

Tool Description	O.D.	I.D.	Length	Depth
Drill Pipe	4.50"	3.826"	4548'	
Drill Collars	6.50"	2.25"	376'	
Reversing Sub	6.00"	3.00"	1'	4924'
Drill Collars	6.50"	2.25"	185'	
Crossover	6.00"	3.00"	1'	
Dual CIP Sampler	5.00"	.75"	7'	
Hydrospring	5.00"	.75"	5'	5122'
AP Case	5.00"	3.06"	4'	5124'
Big John Jars	5.00"	1.75"	5'	
VR Safety Joint	5.00"	1.00"	3'	
Packer	7.50"	1.53"	6'	5139'
Packer	7.50"	1.53"	6'	5145'
Crossover	6.00"	3.00"	1'	
Drill Collars	6.50"	2.25"	31'	
Crossover	6.00"	3.00"	1'	
Flush Joint Anchor	5.75"	4.75"	17'	
BT Case	5.75"	3.50"	4'	5198'
TOTAL DEPTH				5202'



BUG WELL _____
Lease Name _____ Well No. 9 Test No. 2 5145'-5202'
Ticket Number 981947 FARMINGTON _____ Tested Interval _____
Camp _____ Date 10-19-81 WEXPRO _____
Gauge Number(s) 2033-2032 Lease Owner/Company Name _____



TICKET NO. 981947 DATE 10-19-81 HALLIBURTON CAMP FARMINGTON
LEASE OWNER WEXPRO IC-dr
LEASE NAME BUG WELL WELL NO. 9 TEST NO. 2
LEGAL LOCATION Sec. 18, T-36S-R-26E FORMATION TESTED PARADOX
FIELD AREA BUG WELL COUNTY SAN JUAN STATE UTAH
TYPE OF D.S.T. OPEN HOLE
TESTER(S) BEN KEMP
WITNESS ROBERT MASON DRILLING CONTRACTOR ARAPAHOE
DEPTHS MEASURED FROM KELLY BUSHING CASING PERFS (FT.)
TYPE AND SIZE OF GAS MEASURING DEVICE 6" Positive choke

CUSHION DATA

TYPE _____ AMOUNT _____ WEIGHT (lb./gal.) _____
TYPE _____ AMOUNT _____ WEIGHT (lb./gal.) _____

RECOVERY (ft. or bbl.):

270' drilling mud

FLUID PROPERTIES

SOURCE	RESISTIVITY	CHLORIDES (PPM)	SOURCE	RESISTIVITY	CHLORIDES (PPM)
	@ °F			@ °F	
	@ °F			@ °F	
	@ °F			@ °F	

REMARKS: Charts indicate that tools apparently plugged throughout test or tools did not open for final flow period. Charts read as one flow of 30 minutes-remainder of time read as closed in pressure.

TICKET NO. 981947 DATE 10-19-81 ELEVATION (FT.) 6000'
 TOP OF TESTED INTERVAL (ft.) 5145' BOTTOM OF TESTED INTERVAL (ft.) 5202'
 NET PAY (ft.) 5' TOTAL DEPTH (ft.) 5202'
 HOLE OR CASING SIZE (in.) 8 3/4" MUD WEIGHT (lb./gal.) 9.0 VISCOSITY (sec.) 43-45
 SURFACE CHOKE (in.) Bubble hose BOTTOM CHOKE (in.) .75"
 OIL GRAVITY @ °F GAS GRAVITY—ESTIMATED ACTUAL

SAMPLER DATA

PRESSURE (P.S.I.) CUBIC FT. OF GAS

C.C.'s OF OIL C.C.'s OF WATER

C.C.'s OF MUD 2100 TOTAL LIQUID C.C.'s

GAS/OIL RATIO (cu. ft. per bbl.)

FROM SAMPLER OTHER

TEMPERATURE (°F)

ESTIMATE

ACTUAL 120°F.

DEPTH (ft.)

H.T.-500 ☐; THERMOMETER ☒
 T.E. OR R.T.-7 ☐; OTHER ☐

SERIAL NO.

RECORDER AND PRESSURE DATA

CHARTS READ BY BEN KEMP DATA APPROVED BY ROBERT MASON

RECORDERS	GAUGE NUMBER		2033		2032						TIMES (00:00-24:00 HRS.)	
		GAUGE TYPE	1	2					TOOL OPENED		1445	
		GAUGE DEPTH (ft.)	5124	5198					DATE		10-19-81	
		CLOCK NUMBER	14128	10445					BYPASS OPENED		1915	
		CLOCK RANGE (HR.)	24	12					DATE		10-19-81	
PRESSURES	INITIAL HYDROSTATIC		2331.5	2335.5					PERIOD	MINUTES		
	INITIAL FLOW		100.5	152.5					XXX	XXX		
	1st.	FINAL FLOW	123.3	169.7					1st. FLOW	30		
		CLOSED-IN	1243.9	1313.0					1st. C.I.P.	60		
	INITIAL FLOW								XXX	XXX		
	2nd.	FINAL FLOW							2nd. FLOW	60		
		CLOSED-IN							2nd. C.I.P.	120		
	INITIAL FLOW								XXX	XXX		
	3rd.	FINAL FLOW							3rd. FLOW			
		CLOSED-IN							3rd. C.I.P.			
FINAL HYDROSTATIC		2303.7	2320.9					XXX	XXX			

Casing perfs. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 981947
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

[illegible]

Tool Description	O.D.	I.D.	Length	Depth
Drill Pipe	4.50"	3.826 "	4589'	
Drill Collars	6.50"	2.25"	427'	
Reversing sub	6.00"	3.00"	1'	5016'
Drill Collars	6.50"	2.25"	93'	
Crossover	6.00"	3.00"	1'	
Dual CIP Sampler	5.00"	.75"	7'	
Hydrospring	5.0"	.75"	5'	5122'
AP Case	5.00"	3.06"	4'	5124'
Big John Jars	5.00"	1.75"	5'	
VR Safety Joint	5.00"	1.00"	3'	
Packer	7.50"	1.53"	6'	5139'
Packer	7.50 "	1.53"	6'	5145'
Crossover	6.00"	3.00"	1'	
Drill Collar	6.50"	2.25"	31'	
Crossover	6.00"	3.00"	1'	
Flush Joint anchor	5.75"	4.75 "	17'	
B.T. Case	5.75"	3.50 "	4'	
Total Depth				5202'



781747-2033



781747-2032

BUG	9	3	5468' - 5552'	WEXPRO
Lease Name	Well No.	Test No.	Tested Interval	Lease Owner/Company Name
981850	FARMINGTON		10-22-81	6040 - 6039
Ticket Number	Camp		Date	Gauge Number(s)



TICKET NO. 981850 DATE 10-22-81 HALLIBURTON CAMP FARMINGTON
LEASE OWNER WEXPRO IC/pw
LEASE NAME BUG WELL NO. 9 TEST NO. 3
LEGAL LOCATION 18 - 36 S - 26 E FORMATION TESTED LOWER UPPER ISMAY
FIELD AREA BUG COUNTY SAN JUAN STATE UTAH
TYPE OF D.S.T. OPEN HOLE
TESTER(S) D. AULD
WITNESS DRILLING CONTRACTOR ARAPAHOE
DEPTHS MEASURED FROM KELLY BUSHING CASING PERFS (FT.)
TYPE AND SIZE OF GAS MEASURING DEVICE

CUSHION DATA

TYPE AMOUNT WEIGHT (lb./gal.)
TYPE AMOUNT WEIGHT (lb./gal.)
RECOVERY (ft. or bbl.):

90' OF MUD.

FLUID PROPERTIES

SOURCE	RESISTIVITY	CHLORIDES (PPM)	SOURCE	RESISTIVITY	CHLORIDES (PPM)
PIT	.819 @ 65 °F			@ °F	
TOP	.821 @ 67 °F			@ °F	
SAMPLER	.831 @ 66 °F			@ °F	

REMARKS:

- SEE PRODUCTION TEST DATA SHEET -

TICKET NO. 981850 DATE 10-22-81 ELEVATION (FT.) 6014'
 TOP OF TESTED INTERVAL (ft.) 5468' BOTTOM OF TESTED INTERVAL (ft.) 5552'
 NET PAY (ft.) 4' TOTAL DEPTH (ft.) 5552'
 HOLE OR CASING SIZE (in.) 8 3/4" MUD WEIGHT (lb./gal.) 12.5 VISCOSITY (sec.) 41
 SURFACE CHOKE (in.) BUBBLE HOSE BOTTOM CHOKE (in.) .75"
 OIL GRAVITY _____ @ _____ °F GAS GRAVITY—ESTIMATED _____ ACTUAL _____

SAMPLER DATA

PRESSURE (P.S.I.) 2 CUBIC FT. OF GAS _____
 C.C.'s OF OIL _____ C.C.'s OF WATER _____
 C.C.'s OF MUD 2240 TOTAL LIQUID C.C.'s 2240

GAS/OIL RATIO (cu. ft. per bbl.)

FROM SAMPLER _____ OTHER _____

TEMPERATURE (°F)

ESTIMATE _____
 ACTUAL 124
 DEPTH (ft.) 5548'
 H.T.-500 ☐; THERMOMETER ☒;
 T.E. OR R.T.-7 ☐; OTHER ☐
 SERIAL NO. _____

RECORDER AND PRESSURE DATA

CHARTS READ BY D. AULD DATA APPROVED BY _____

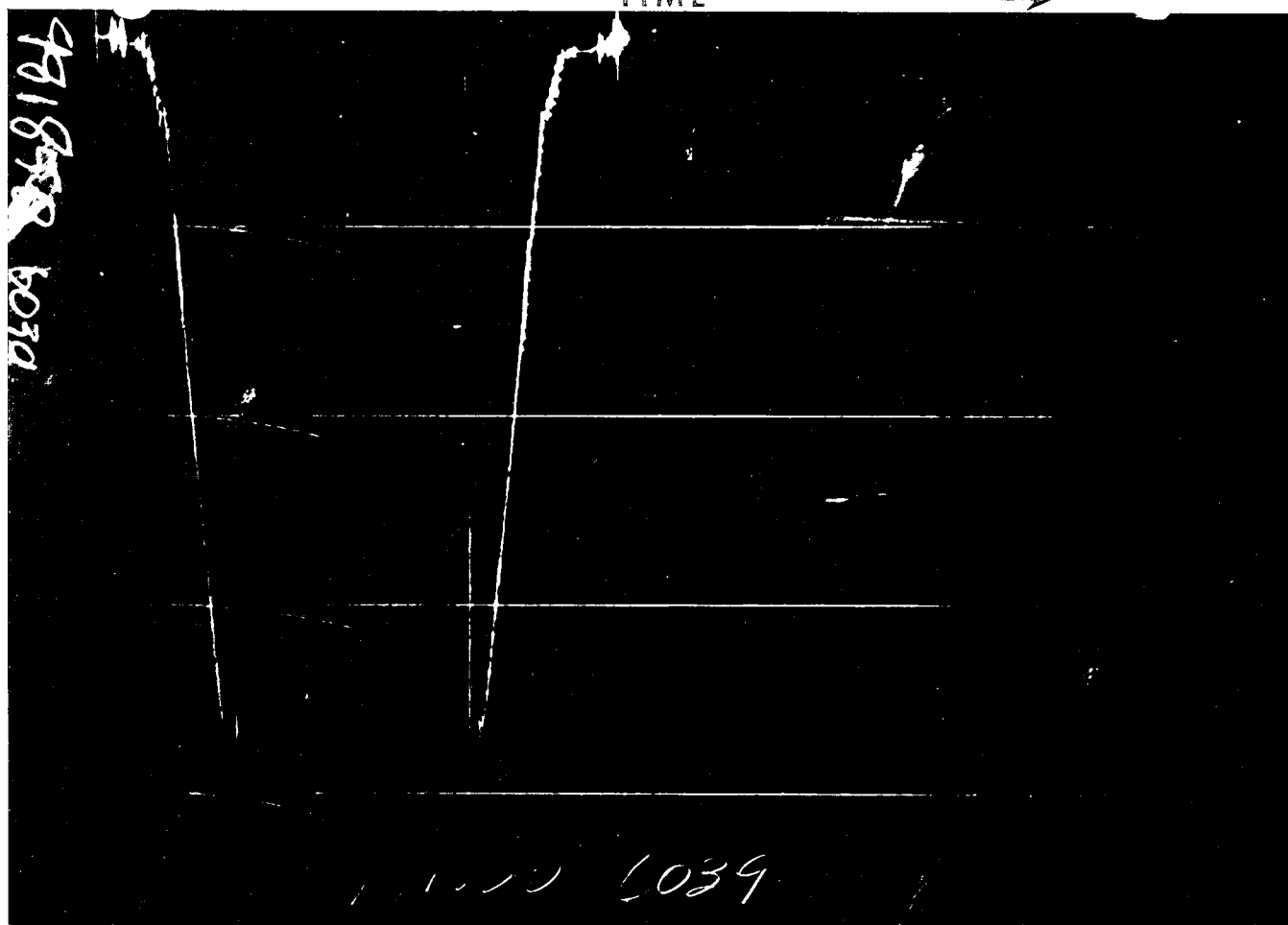
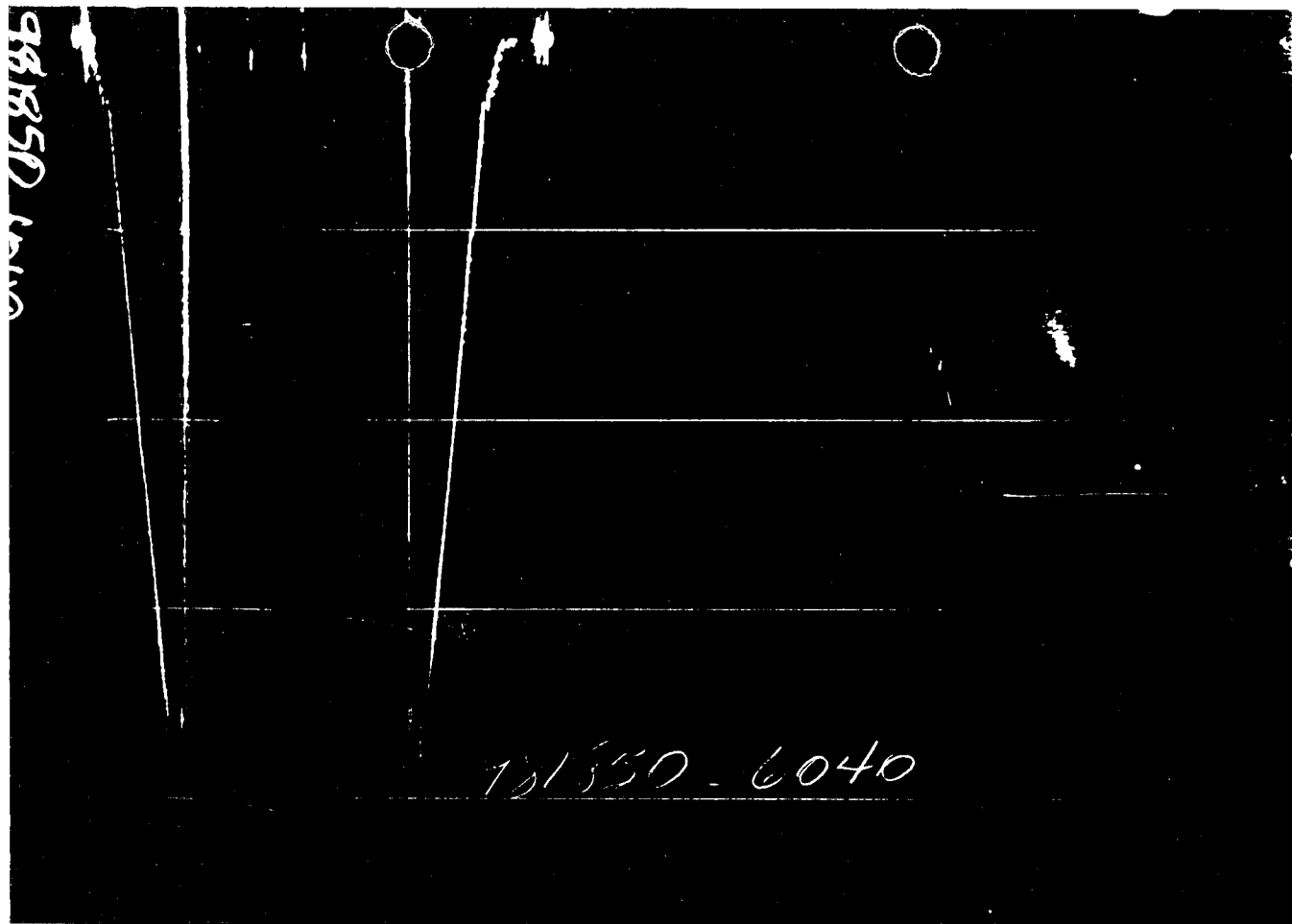
RECORDERS	GAUGE NUMBER	6040	6039			TIMES (00:00-24:00 HRS.)	
	GAUGE TYPE	1	2			TOOL OPENED	1918
	GAUGE DEPTH (ft.)	5447	5549			DATE	10-21-81
	CLOCK NUMBER	14128	13840			BYPASS OPENED	2338
	CLOCK RANGE (HR.)	24	24			DATE	10-21-81
	INITIAL HYDROSTATIC	3569.1	3644.4			PERIOD	MINUTES
PRESSURES	INITIAL FLOW	37.8	107.0			XXX	XXX
	1st. FINAL FLOW	55.4	136.8			1st. FLOW	20
	CLOSED-IN	151.3	222.2			1st. C.I.P.	60
	INITIAL FLOW	81.0	154.4			XXX	XXX
	2nd. FINAL FLOW	89.1	162.6			2nd. FLOW	60
	CLOSED-IN	148.6	215.4			2nd. C.I.P.	120
	INITIAL FLOW					XXX	XXX
	3rd. FINAL FLOW					3rd. FLOW	
	CLOSED-IN					3rd. C.I.P.	
	FINAL HYDROSTATIC	3566.3	3643.0			XXX	XXX

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 981850
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED

[illegible]

Tool Description	O.D.	I.D.	Length	Depth
Drill Pipe	4.5"	3.826"	4934'	
Drill Collars	6.5"	2.25"	467'	
Reversing Sub - Hollow Pin	6"	3"	1'	5402'
Drill Collar	6.5"	2.25"	31'	
Crossover	6"	3"	1'	
Dual CIP Sampler	5"	.87"	7'	
Hydrospring Tester	5"	.75"	5'	5445'
AP Running Case	5"	2.25"	4'	5447'
Big John Jar	5"	1.75"	5'	
V.R. Safety Jt.	5"	1"	3'	
Packer Assembly	7.75"	1.53"	6'	5462'
Packer Assembly	7.75"	1.53"	6'	5468'
Crossover	6"	3"	1'	
Drill Collars	6.5"	2.25"	62'	
Crossover	6"	3"	1'	
Flush Jt. Anchor	5.75"	2.25"	14'	
Blanked-off Running Case	5.75"		4'	5549'
TOTAL DEPTH				5552'

↓ PRESSURE



Each Horizontal Line Equal to 1000 p.s.i.

**** FILE NOTATIONS ****

DATE: Oct 10, 1980
OPERATOR: Weyer Co.
WELL NO: Bug 9
Location: Sec. 18 T. 36S R. 26E County: San Juan

File Prepared: ☐

Entered on N.I.D: ☐

Card Indexed: ☐

Completion Sheet: ☐

API Number 43-037 30604

CHECKED BY:

Petroleum Engineer: M. A. Menden 10/16/80
Topographic exception

Director: OK as per order issued in Case 186-1 dtd
10/27/1980

Administrative Aide: _____

APPROVAL LETTER:

Bond Required: ☐ Survey Plat Required: ☐

Order No. 186-1 2/27/80 O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site ☐

Lease Designation Per

Plotted on Map ☒

Hot Line ☒ Approval Letter Written ☒
P.I. ☒

October 17, 1980

Wexpro Company
P. O. Box 1129
Rock Springs, Wyoming 82901

Re: Well No. Bug #9
Sec. 18, T. 36S, R. 26E,
San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with the Order issued in Cause No. 186-1 dated February 27, 1980.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30604.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Cleon B. Feight /ka

Cleon B. Feight
Director

/ka
cc: USGS

BUG WELL

Lease Name

#9
Well No. Test No.

5578' to 5630'
Tested Interval

WEXPRO COMPANY
Lease Owner/Company Name

981948

Ticket Number

FARMINGTON

Camp

10-23-81

Date

2033

- 2032

Gauge Number(s)

NOV 03 1981

DIVISION OF
OIL, GAS & MINING



TICKET NO. 981948 DATE 10-23-81 HALLIBURTON CAMP FARMINGTON

LEASE OWNER WEXPRO COMPANY SM bj

LEASE NAME BUG WELL WELL NO. #9 TEST NO. #4

LEGAL LOCATION 18 36S 26E FORMATION TESTED LOWER ISMAY POROSITY

FIELD AREA BUG FIELD COUNTY SAN JUAN STATE UTAH

TYPE OF D.S.T. OPEN HOLE

TESTER(S) BEN KEMP

WITNESS ROBERT MASER DRILLING CONTRACTOR ARAPAHOE DRILLING COMPANY

DEPTHS MEASURED FROM KELLY BUSHING CASING PERFS (FT.)

TYPE AND SIZE OF GAS MEASURING DEVICE 6" POSITIVE CHOKE

CUSHION DATA

TYPE AMOUNT WEIGHT (lb./gal.)

TYPE AMOUNT WEIGHT (lb./gal.)

RECOVERY (ft. or bbl.):

400 feet of gas cut mud....

FLUID PROPERTIES

SOURCE	RESISTIVITY	CHLORIDES (PPM)	SOURCE	RESISTIVITY	CHLORIDES (PPM)
PIT	.673 @ 71 °F	4300	SAMPLER	.213 @ 70 °F	5000
TOP OF FLUID	.644 @ 71 °F	4000		@ °F	
TOP OF TOOLS	.213 @ 70 °F	5000		@ °F	

REMARKS:

SEE PRODUCTION TEST DATA SHEET....Charts indicate possible plugging during the flow periods....

TICKET NO. 981948 DATE 10-23-81 ELEVATION (FT.) 6000'
 TOP OF TESTED INTERVAL (ft.) 5578' BOTTOM OF TESTED INTERVAL (ft.) 5630
 NET PAY (ft.) 14' TOTAL DEPTH (ft.) 5630'
 HOLE OR CASING SIZE (in.) 8.75" MUD WEIGHT (lb./gal.) 12.6 VISCOSITY (sec.) 40
 SURFACE CHOKE (in.) .375" BOTTOM CHOKE (in.) .750"
 OIL GRAVITY _____ @ _____ °F GAS GRAVITY—ESTIMATED 60 ACTUAL _____

SAMPLER DATA

PRESSURE (P.S.I.) 20 CUBIC FT. OF GAS _____

C.C.'s OF OIL _____ C.C.'s OF WATER _____

C.C.'s OF MUD 2100 TOTAL LIQUID C.C.'s _____

GAS/OIL RATIO (cu. ft. per bbl.)

FROM SAMPLER _____ OTHER _____

TEMPERATURE (°F)

ESTIMATE _____

ACTUAL 130

DEPTH (ft.) 5626'

H.T.-500 ☐; THERMOMETER ☒
 T.E. OR R.T.-7 ☐; OTHER ☐

SERIAL NO. _____

RECORDER AND PRESSURE DATA

CHARTS READ BY BEN KEMP

DATA APPROVED BY ROBERT MASER

RECORDERS	GAUGE NUMBER	2033	2032			TIMES (00:00-24:00 HRS.)	
	GAUGE TYPE	1	2			TOOL OPENED	0708
	GAUGE DEPTH (ft.)	5556	5626			DATE	10-23-81
	CLOCK NUMBER	10445	13840			BYPASS OPENED	1310
	CLOCK RANGE (HR.)	12	24			DATE	10-23-81
PRESSURES	INITIAL HYDROSTATIC	3672.1	3720.4			PERIOD	MINUTES
	INITIAL FLOW	71.2	148.4			XXX	XXX
	1st. FINAL FLOW	190.2	216.7			1st. FLOW	24.6
	CLOSED-IN	473.7	504.2			1st. C.I.P.	62.3
	INITIAL FLOW	130.4	134.2			XXX	XXX
	2nd. FINAL FLOW	199.2	222.7			2nd. FLOW	91.4
	CLOSED-IN	2163.9	2186.5			2nd. C.I.P.	178.3
	INITIAL FLOW					XXX	XXX
	3rd. FINAL FLOW					3rd. FLOW	
	CLOSED-IN					3rd. C.I.P.	
	FINAL HYDROSTATIC	3661.3	3707.7			XXX	XXX

Casing perms. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 981948
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
 INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
10-23-81						
0545						On bottom with tool. Waited for day-
						light to open tool.
0705						Tagged bottom and set packers.
0708		Bubble Hose				Opened tool with a weak blow.
0713		"				Increased to a good blow-10" in water.
0718		"				Increased with blow 1" from bottom.
0724		"				Increased to strong blow at bottom of
0727		.125"				bucket. Opened to pit on choke.
0738		"				Closed for CIP with strong blow.
0840		"				Opened tool with a strong blow.
0842		.375"	2			Changed choke at surface.
0845		"	1			Pressure change.
0853		Bubble Hose				Flow died. Closed surface choke with
0910		"				a fair blow. Strong blow increase.
0915		.375"				Opened surface choke to pit.
0930		"				Gas to surface - flared to pit.
0950		"				Still flaring gas to pit.
1010		"				Shut tool with gas flared to pit.
1310						Opened bypass and pulled tool loose.
1445						Tripped out of hole. Top of recovery.
1530						Broke down and loaded out tools.

WEXPRO COMPANY
Lease Owner/Company Name

981948 Page 1
Ticket Number

B.T. 2033

B.T. 2032

B.T.

Depth 5556'

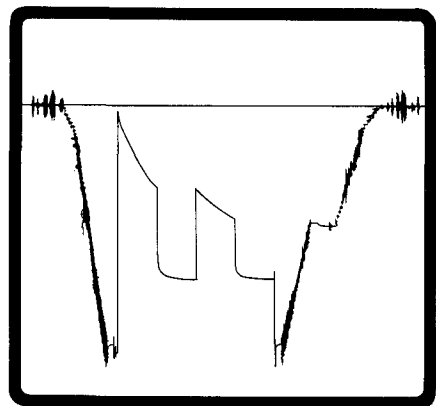
Depth 5626'

Depth

Time (minutes)	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time (minutes)	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time (minutes)	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.
FIRST FLOW			FIRST FLOW					
0		71.2	0		148.4			
5		126.2	5		173.7			
10		151.9	10		180.5			
15		170.1	15		201.5			
20		182.7	20		209.7			
24.6		190.2	24.6		216.7			
FIRST CIP			FIRST CIP					
0		190.2	0		216.7			
62.3		473.7	62.3		504.2			
SECOND FLOW			SECOND FLOW					
0		130.4	0		134.2			
4	CC	173.9	3.8	CC	187.9			
15		211.9	15.0		247.2			
20.6	PC	233.9	19.5	PC	261.7			
30		228.2	30		254.1			
45		218.5	45		239.4			
60		212.3	60		237.1			
75		226.5	75		240.2			
91.4		199.2	91.4		222.7			
SECOND CIP			SECOND CIP					
0		199.2	0		222.7			
10		348.5	10		371.1			
20		512.7	20		536.6			
30		668.5	30		692.8			
40		826.7	40		847.1			
50		976.7	50		999.9			
60		1118.8	60		1144.6			
70		1255.3	70		1280.8			
80		1382.6	80		1414.4			
90		1503.4	90		1534.1			
100		1615.6	100		1646.6			
110		1714.7	110		1751.2			
120		1807.2	120		1846.7			
130		1892.7	130		1928.0			
140		1967.4	140		1999.3			
150		2031.0	150		2060.5			
160		2084.2	160		2113.0			
170		2130.9	170		2156.5			
178.3		2163.9	178.3		2186.5			

Remarks: CC-Choke change PC-Possible choke change

Tool Description	O.D.	I.D.	Length	Depth
DRILL PIPE	4.50"	3.826"	5012'	
DRILL COLLARS	6.50"	2.25"	441'	
REVERSING SUB	6.00"	3.00"	1'	5453'
DRILL COLLARS	6.50"	2.25"	90'	
CROSSOVER	6.00"	3.00"	1'	
DUAL CIP SAMPLER	5.00"	.75"	7'	
HYDROSPRING TESTER	5.00"	.75"	5'	5554'
AP RUNNING CASE	5.00"	3.06"	4'	5556'
BIG JOHN JARS	5.00"	1.75"	5'	
VR SAFETY JOINT	5.00"	1.00"	3'	
PACKER	7.50"	1.53"	6'	5572'
PACKER	7.50"	1.53"	6'	5578'
CROSSOVER	6.00"	3.00"	1'	
DRILL COLLAR	6.50"	2.25"	31'	
CROSSOVER	6.00"	3.00"	1'	
FLUSH JOINT ANCHOR	5.75"	4.75"	14'	
BT RUNNING CASE	5.75"	3.50"	4'	5626'
TOTAL DEPTH				5630'



FORMATION TESTING SERVICE REPORT

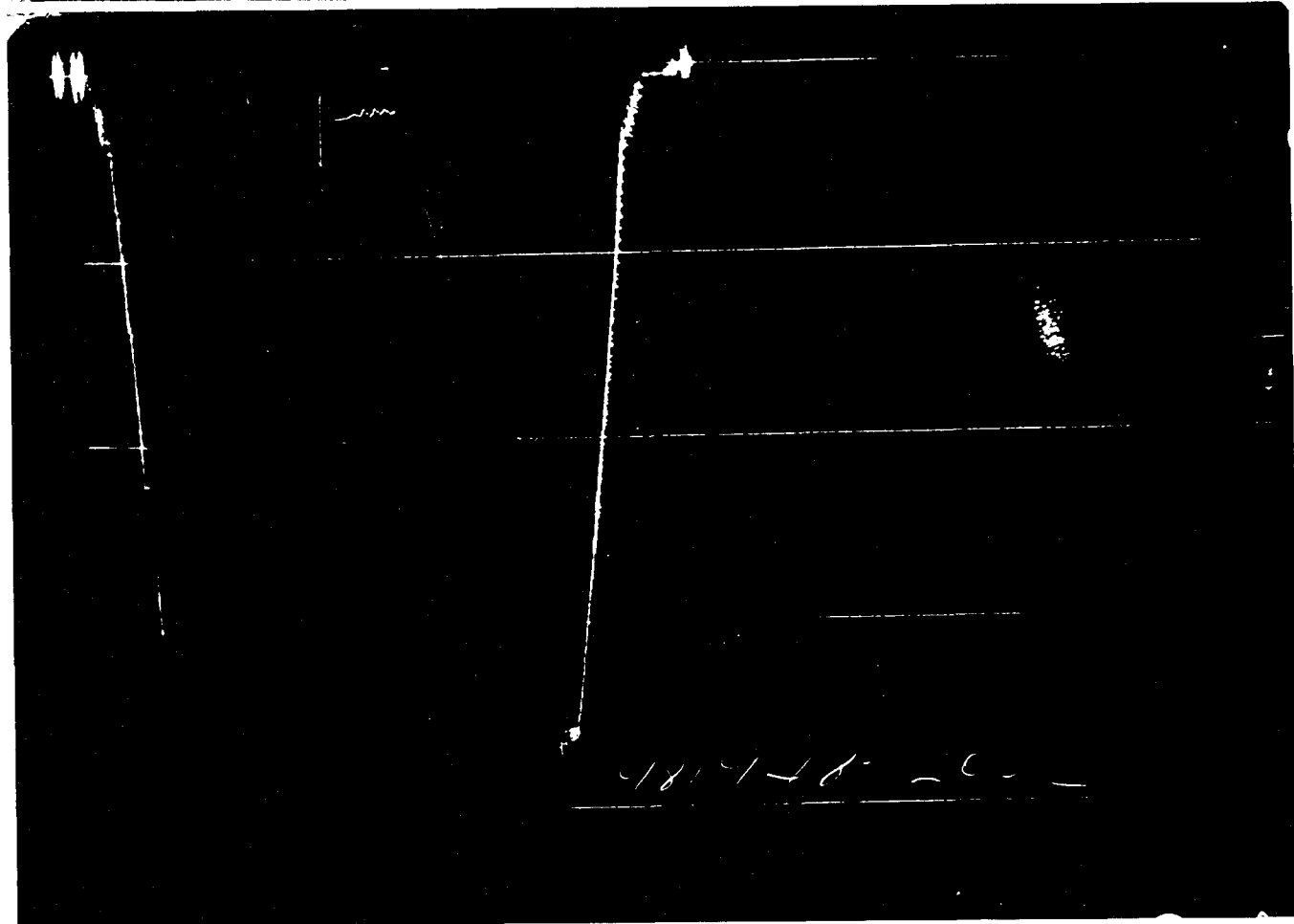
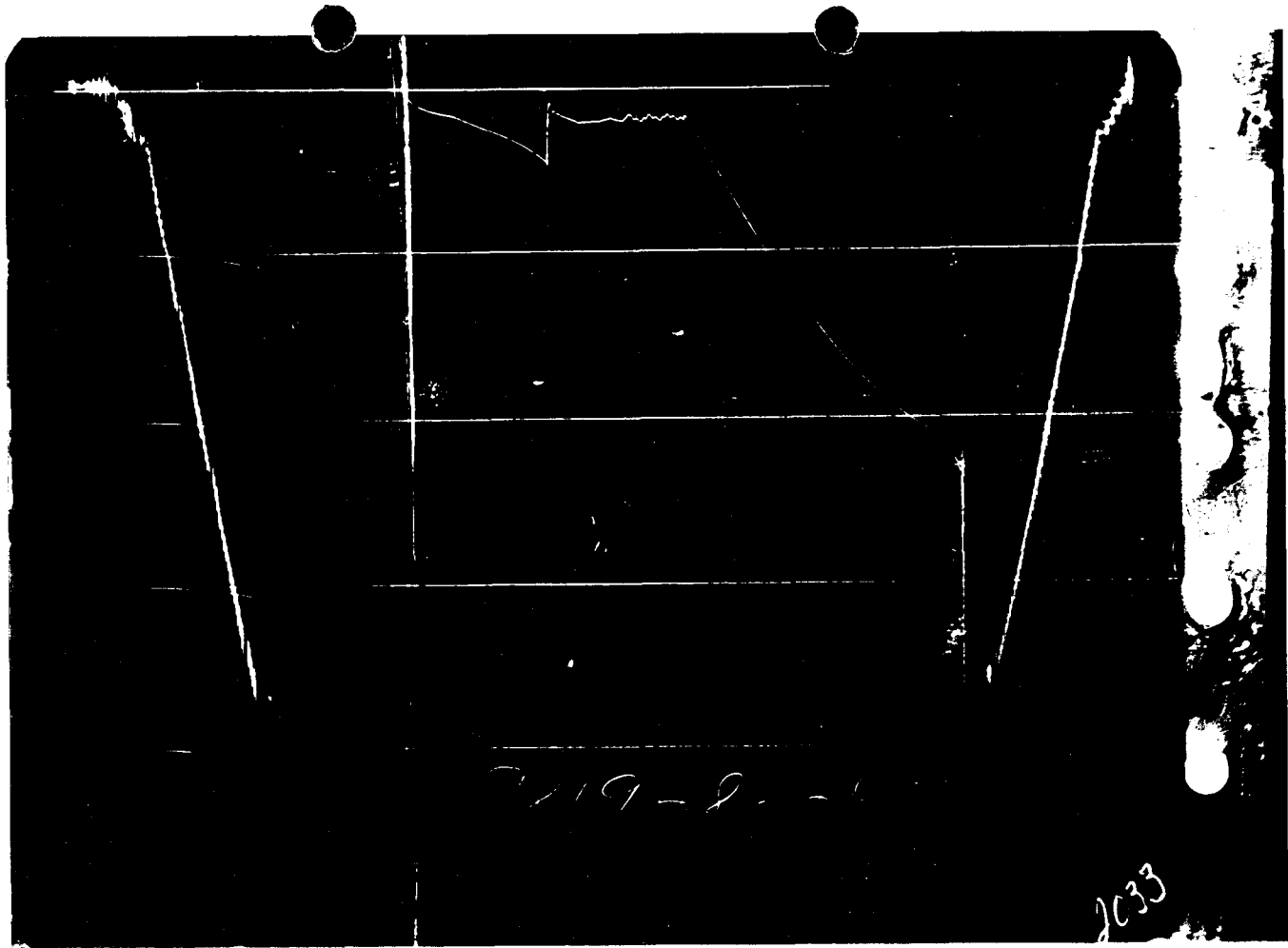
Leape



Duncan, Oklahoma 73536



A Halliburton Company



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**DIVISION OF
OIL, GAS & MINING**

WEXPRO COMPANY

Bug Well No. 9

Section 18, T36S, R26E
San Juan County, Utah

GEOLOGIC REPORT
for
WEXPRO COMPANY
on
BUG WELL NO. 9
Section 18, T36S-R26E
San Juan County, Utah

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November 1981

Michael C. Meeker
Mike Meeker
Geologist

WELL DATA SUMMARY

Well Name: Bug Well No. 9

Operator: Wexpro Company

Location: NE, NE, Sec. 18, T36S, R26E

County and State: San Juan County, Utah

Area: Bug Field

Drilling Contractor: Arapahoe Drilling Company

Elevation: G.L.: 6032' K.B.: 6046'

Depth Logged: 4000' - 5822'

Well Status: Developmental

Casing Program: Surface: 9 5/8" (36#, K55) set @ 1420'
Production: 5 1/2"

Mechanical Logs Run: 1. DIL-SP-GR
2. CNL/FDC-GR-CAL

Cores: No cores cut

DST: DST No. 1 -- Paradox - 5145' - 5201' (misrun)
DST No. 2 -- Paradox - 5145' - 5201'
DST No. 3 -- Lower Upper Ismay - 5468' - 5552'
DST No. 4 -- Lower Ismay Porosity - 5578' - 5630'

Mudlogging Company: Smith Mudlogging, Inc.

FORMATION TOPS

<u>FORMATION</u>	<u>PROGNOSIS</u>	<u>SAMPLE</u>	<u>ESTIMATED TOP</u>	<u>E-LOG</u>	<u>SUBSEA LOG</u>
Honaker Trail	4060'	4080'	4085'	4084'	+1962'
Paradox	4745'	4780'	4780'	4781'	+1265'
Upper Ismay	5240'	----	5251'	5245'	+ 801'
Lower Upper Ismay	5405'	5440'	5434'	5427'	+ 619'
Lower Ismay Shale	5475'	5500'	5490'	5488'	+ 558'
Lower Ismay Ø	5585'	5620'	5613'	5610'	+ 436'
"B" Zone Shale	5600'	5640'	5627'	5624'	+ 422'
Desert Creek	5650'	5690'	5684'	5678'	+ 368'
Lower Bench	5695'	----	5734'	5729'	+ 317'
Desert Creek Ø	5700'	5740'	5739'	5734'	+ 312'
Akah	----	5780'	5778'	5781'	+ 265'
Salt	5785'	----	5824'	5819'	+ 227'
T. D.			5827'	5822'	+ 224'

DAILY DRILLING SUMMARY

[illegible]

Deviation surveys after surface casing

[illegible]

BIT RECORD

OIL CO.: Wexpro Company WELL NAME: Bug Well No. 9 LOCATION NO: NE, NE, Sec. 18, T36S, R26E

CONTRACTOR: Arapahoe Drilling RIG #: 4 County: San Juan STATE: Utah

RIG MAKE & MODEL: _____ SURF CSG: 9 5/8" @ 1420' INT. CSG: _____ PROD CSG: _____

NO 1 PUMP, MAKE & MODEL: National C250 SPUD DATE: 10/9/81 G.L.: 6032'

NO 2 PUMP, MAKE & MODEL: Emsco D 300 T.D. DATE: 10/25/81 K.B.: 6046'

[illegible]

LOGGING REPORTDATE: 10/25/81Logging Co.: Schlumberger Logging Engineer: Mike McBride Truck No.: 8147Depth (Driller's): 5827' Depth (Strap): No Strap Depth (Loggers): 5822'Hole Size: 8 3/4" Casing (Drillers): 1420' Intermediate Casing (Drillers):

Mud details:

Mud Type: LSND Wt.: 12.5 Vis: 45 pH: 10.5 w.l.: 12.0Salinity at time of logging: 0.49 @ 65° F (ppm-chlorides)Hole conditions prior to logging: Hole appears to be in good condition prior
loggingOperations summary:- Circ. time after T.D. (hrs) 2½, No. of "Dummy Trips" 0Description of dummy trips: None madeHours logging: 5½

Logging Sequence:

Logs	Time Spent in hours	Remarks
------	------------------------	---------

- | | | |
|-------------------|----|---|
| 1. DIL-SP-GR | 5½ | Run both the resistivity and porosity |
| 2. CNL-FDC-GR-Cal | | logs together on one run; no difficulties encountered |

No of runs in hole: Total 1 Succeeded: 1 Failed: 0Further Remarks:

DRILL STEM TEST REPORTTest No. & Interval: DST #1 Paradox 5145'-5201' Date 10/18/81Well Name & Location: Bug Well No. 9 NE, NE, Sec. 18, T36S, R26EFormation: Paradox Hole Size 8 3/4"Test Type: Conventional Bottom Hole Testing Co.: HalliburtonMud Properties: Mud Wt: 8.5 Vis: 33 PH 8.5Water Loss 19.2Water Cushion (If any) NoneTimes & Pressures:Time & Date Tool opened: 4:35 P. M. 10/18/81Prewflow: 30 mins. psi F.S.T. 120 mins. psiI.S.I.: 60 mins. psi I.H. psi MisrunI.F.: mins. psi F.H. psiF.F. 60 mins. psiBottom Hole Temperature, °F.Recovery & Description: MisrunBlow on Prewflow: Tool opened w/weak 1" blow after pipe slid 15';
decreased to 1/4" in 10 minutes; dead in 20 minutes and continued throughout
Gas/Fluid to surface: N.G.T.S.Type of flow during valve open (flow period): Tool opened w/no blow and
continued throughoutFluid Recovered: Samples: Quantity: Shipped to: Shipped by:

DRILL STEM TEST REPORT
(page 2)

Test No. 1

Well Name Bug Well No. 9

Flow Measurements & Closed Chamber Data (if any):

<u>Times</u> <u>(mins)</u>	<u>Pressure</u> <u>Measurements</u>	<u>Choke</u> <u>size</u>	<u>Flow</u> <u>Rate</u>	<u>Description</u>
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Remarks: (reason for test failure, abnormalities on charts, water salinity (ppm) etc):

When tool was first set on bottom and opened, it slid 15' through fill to actual bottom. The perforated pipe and collars were plugged off w/fill in some places and the charts were unreadable, due to plugging. The decision was made to retest this zone w/DST #2 and this test was declared a misrun.

DRILL STEM TEST REPORTTest No. & Interval: DST #2 Paradox 5145'-5201' Date 10/19/81Well Name & Location: Bug Well No. 9 NE, NE, Sec. 18, T36S, R26EFormation: Paradox Hole Size 8 3/4"Test Type: Conventional Bottom Hole Testing Co.: HalliburtonMud Properties: Mud Wt: 8.7+ Vls: 42 PH 8.5Water Loss 18Water Cushion (If any) NoneTimes & Pressures:Time & Date Tool opened: 2:45 P. M. 10/19/81Prewflow: 30 mins. 93/120 psi F.S.T. 120 mins. 1201 psi Location
Top ChartI.S.I.: 60 mins. 375 psi I.H. --- 2336 psiI.F.: -- mins. 402 psi F.H. --- 2336 psiF.F. 90 mins. 429 psiBottom Hole Temperature, 120 °F.Recovery & Description:Blow on Prewflow: Tool opened w/weak 3" blow; built to 6" in 10 minutes;
continued 6" blow at 20 minutes; decreased to 4" in 25
minutes; increased to 10" @ end of flowGas/Fluid to surface: N.G.T.G.Type of flow during valve open (flow period): Tool opened w/very weak
blow on surface and remained throughoutFluid Recovered: 270' of drilling mud and 2100 cc. drilling mudSamples: Quantity: 4 samples

Shipped to: _____ Shipped by: _____

DRILL STEM TEST REPORT
(page 2)

Test No. 2

Well Name Bug Well No. 9

Flow Measurements & Closed Chamber Data (if any):

<u>Times</u> <u>(mins)</u>	<u>Pressure</u> <u>Measurements</u>	<u>Choke</u> <u>size</u>	<u>Flow</u> <u>Rate</u>	<u>Description</u>
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Remarks: (reason for test failure, abnormalities on charts, water salinity (ppm) etc):

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DRILL STEM TEST REPORT

Test No. & Interval: DST #3 5468'-5552' Date 10/21/81

Well Name & Location: Bug Well No. 9 NE, NE, Sec. 18, T36S, R26E

Formation: Lower Upper Ismay Hole Size 8 3/4"

Test Type: Conventional Bottom Hole Testing Co.: Halliburton

Mud Properties: Mud Wt: 12.5+ Vis: .41 PH 11

Water Loss 12

Water Cushion (If any) None

Times & Pressures:

Time & Date Tool opened: 7:18 P. M. 10/21/81

Preflow: 20 mins, 41/54 psi F.S.T. 120 mins, 149 psi Location
5447

I.S.I.: 60 mins, 149 psi I.H. --- 3560 psi

I.F.: -- mins, 81 psi F.H. --- 3560 psi

F.F. 60 mins, 95 psi

Bottom Hole Temperature, 124 °F.

Recovery & Description:

Blow on Preflow: Tool opened w/ a weak 1" blow (1/4 oz.); remained throughout

Gas/Fluid to surface: N.G.T.S.

Type of flow during valve open (flow period): Tool opened w/a very weak surface blow; died 34 minutes into flow; remained dead

Fluid Recovered: Pipe rec. 90' heavy drilling mud. Sampler: 2240 cc. heavy drilling mud

Samples: Quantity: 2 1 @ top of pipe recovery 1 @ sampler

Shipped to: _____ Shipped by: Halliburton

DRILL STEM TEST REPORT
(page 2)

Test No. 3

Well Name Bug Well No. 9

Flow Measurements & Closed Chamber Data (if any):

<u>Times</u> <u>(mins)</u>	<u>Pressure</u> <u>Measurements</u>	<u>Choke</u> <u>size</u>	<u>Flow</u> <u>Rate</u>	<u>Description</u>
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Remarks: (reason for test failure, abnormalities on charts, water salinity (ppm) etc):

1. Tester ran preflow 10 minutes short by mistake

DRILL STEM TEST REPORT

Test No. & Interval: DST #4 5578'-5630' Date 10/23/81

Well Name & Location: Bug Well No. 9 NE, NE, Sec. 18, T36S, R26E

Formation: Lower Ismay Porosity Hole Size 8 3/4"

Test Type: Conventional Bottom Hole Testing Co.: Halliburton

Mud Properties; Mud Wt: 12.6 Vis: 44 PH 10

Water Loss: 12.4

Water Cushion (If any) None

Times & Pressures:

Time & Date Tool opened: 7:08 A. M. 10/23/81

Preflow: 30 mins, 53/161 psi F.S.R. 180 mins, psi 5557

I.S.I.: 60 mins. 429 psi I.H. --- 3624 psi

I.F.: -- mins. 107 psi F.H. --- 3624 psi

F.F. 90 mins. 161 psi

Bottom Hole Temperature, 130 °F.

Recovery & Description:

Recovery & Description:
Tool opened w/weak blow; increased to good 10" blow @ 5 minutes; built to strong blow to B.O.B. @ 16 minutes; remained throughout N.G.T.S.

Gas/Fluid to surface: G.T.S. 52 minutes into final flow, T.S.T.M.

Type of flow during valve open (flow period): Tool opened w/strong blow to B.O.B. 2 lb. in 2 minutes; decreased to 1 lb. in 5 minutes. Flow died in 15 minutes.

Fluid Recovered: Closed surface choke w/fair 10" blow increased to strong blow @ 32 minutes; G.T.S. 52 minutes into flow T.S.T.M. 400' gas cut mud.

Samples: Quantity: 3 Samples

Shipped to: _____ Shipped by: Halliburton

DRILL STEM TEST REPORT
(page 2)

Test No. #4

Well Name Bug Well No. 9

Flow Measurements & Closed Chamber Data (if any):

<u>Times</u> <u>(mins)</u>	<u>Pressure</u> <u>Measurements</u>	<u>Choke</u> <u>size</u>	<u>Flow</u> <u>Rate</u>	<u>Description</u>
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Remarks: (reason for test failure, abnormalities on charts, water salinity (ppm) etc).

	<u>Resis.</u>	<u>Chlorides</u>
Pit	.673 @ 71°F	4300
Top of Fluid	.644 @ 71°F	
Top of Tools	.213 @ 70°F	
Sampler: Not recorded from sampler (too thick)		

FORMATION EVALUATION

I began geologic responsibility for the Wexpro Company, Bug Well No. 9, in Section 18, T36S, R26E, on October 15, 1981. We were drilling in the upper Honaker Trail when I arrived on location. I backlogged the interbedded reddish-orange sands and shales of the Permian Cutler Formation to 4000'. They were drilling with water and didn't fully mud up until 5500', so sample quality was generally poor to very poor through the upper section of the well.

Honaker Trail Formation: Hermosa Group, Upper Pennsylvanian 4084'-4781'

The transition from the Permian deposits of the Cutler to the Pennsylvanian deposits of the Honaker Trail was a very gradual one and was made more difficult to discern, due to the poor sample quality. The top of the Honaker Trail was identified by the introduction of massive limestones and a gradual change in the color of the shales from those of the Cutler Formation.

The Honaker Trail consisted of a thick interbedded sequence of limestones, shales and occasional thick, massive sandstones. The limestones were all visibly tight and the sandstone porosities were difficult to determine, due to their unconsolidated nature. A 28-unit total gas increase was noted from one such sand at 4657'-4680', with no sample show.

Conclusion: Zone is of little or no economic interest locally.

Paradox Formation: Hermosa Group, Pennsylvanian 4781'-5822'

The Paradox Formation is an evaporate facies in the Hermosa Group and developed in a restricted marine environment. This zone consisted of a thick alternating sequence of limestones, marlstones, shales, anhydrites and occasionally massive sandstones. A drilling break in limestone was encountered at 5171'-5176' with a 172-unit total gas increase in which we tested with DST #1 and DST #2. DST #1 was a misrun and DST #2 yielded poor and, in my opinion, inconclusive results.

Conclusion: Zone of minor economic interest. The aforementioned limestone interval, which we tested, needs to be looked at closely on the E-logs.

The Upper Ismay zone was identified by the introduction of a very argillaceous medium to dark greyish-brown limestone, which was grading to a marlstone and was penetrated at 5245', according to the E-log profile. The shales of this interval were of similar composition and color, except toward the base, where they became dark grayish-brown to black, very calcareous and carbonaceous.

Conclusion: Zone of little or no economic interest.

The Lower Upper Ismay zone was picked at the base of the carbonaceous shale described above and consisted of a thin anhydrite bed at the top, with an underlying tight limestone. This limestone interval was followed by an underlying very finely crystalline and earthy dolomite, which exhibited minor, poor observable intercrystalline porosity (4-6%) and a total gas increase of 38 units. This zone was tested with DST #3 from 5468'-5552' with the resultant recovery of 90' of drilling mud.

Conclusion: Zone of little or no economic interest locally.

The lower Ismay shale was penetrated at 5488' and consisted of a thick interval of dark grayish-brown calcareous, carbonaceous, and occasionally silty shale, with an underlying massive anhydrite bed.

Conclusion: Zone of interest as a potential hydrocarbon source bed.

The Lower Ismay Porosity consisted of an earthy and very fine crystalline dolomitic limestone, which exhibited 7-9% intercrystalline porosity and was capped by the massive anhydrite mentioned above. A 45-unit total gas increase was noted from this zone, which prompted DST #4 from 5578'-5630'. We had gas to surface 52 minutes into final flow, which was too small to measure and the recovery of 400' of gas cut mud.

Conclusion: Zone of some economic interest. Although the drill stem test results were fairly poor, this zone has fair porosity and the permeability can be enhanced by completion techniques which may make this zone potentially significant.

The "B" zone shale was encountered at 5624' and consisted of a dark to very dark grayish-brown and black calcareous and carbonaceous shale. This interval serves as a good marker bed and is of no economic interest except as a potential source bed.

The Desert Creek zone was picked at the base of the shale described above and consisted of a very silty and sandy limestone, which was grading to a calcareous sandstone in part. An underlying thick anhydrite was followed by a thick, tight argillaceous and silty limestone.

Conclusion: Zone of little or no economic interest, due to lack of hydrocarbon shows.

The Lower Bench zone was picked at the base of an argillaceous dolomite and at the top of a thin anhydrite.

Conclusion: Zone of little or no economic interest.

The Desert Creek Porosity was encountered at the base of the Lower Bench anhydrite at 5735' and encompassed approximately 18', consisting of buff to light grayish-brown and predominantly microcrystalline dolomite, exhibiting poor to fair observable vuggy and intercrystalline porosity. Euhedral crystals were noted on concave surfaces, which suggests the probability of good vuggy porosity, which is substantiated by the 1-2 minute/foot drilling break we encountered through this interval. No sample shows were observed, probably due to the high gravity of the Desert Creek oil and the intense flushing of the heavy drilling mud. Abundant black dead bitumen was noted in filling pore space. A 55-unit mud gas increase was noted.

Conclusion: Zone of treat economic interest. The good porosities and mud gas shows make this zone a potentially economically significant one.

The Akah was picked at the base of a very dark grayish-brown black calcareous and carbonaceous shale and at the top of a buff to light brown very fine to occasionally medium crystalline and clean dolomite exhibiting fair to rarely good intercrystalline porosity. A 230-unit total mud gas increase was noted from 5802'-5805' in a buff to light brown earthy and silty dolomite, with poor observable porosity.

Conclusion: Zone of some economic interest. The large mud gas show mentioned above suggests the need to scrutinize this interval on the E-logs to determine the significance of this hydrocarbon show, if any.

The Paradox salt was encountered at 5819', which we drilled 3 feet into for a total depth of 5822'.

Lithologic Descriptions

Drilling with water; sample quality poor to very poor

- 4000-4010 70% Shale - red-orange, pale green, medium lavender, blocky, some sub-waxy, very silty and grading to siltstone in parts, some slightly calcareous, firm, slightly to very micro-micaceous in parts, occasionally sandy, minor variable shale, minor pyritic
- 30% Sandstone - predominantly very fine to medium, unconsolidated quartz grains; clear to translucent, occasionally light orange, angular to sub-rounded; occasionally red-orange very fine to fine grain, consolidated sand with clay cement, some calcareous, moderately sorted, porosity uncertain, some tight, no shows, fluorescence, odor or cuts
- Trace limestone - light brown, some light orange, micro-crystalline, firm to very firm, no shows, fluorescence, cuts or odors
-
- 4010-4020 80% Shale - as above
- 20% Sandstone - as above
- Trace limestone - as above
-
- 4020-4030 70% Shale - as above, slightly more abundant pale green shale with pyritic inclusions than above, some with abundant biotitic flakes
- 30% Sandstone - as above, more abundant very fine to fine grain consolidated argillaceous sand than above
- Light trace limestone as above, trace chert
-
- 4030-4040 60% Shale - as above, green, gray to light gray in parts, some very sandy pale green shale
- 30% Sandstone - as above, minor pale green, very fine grain consolidated sand with clay and calcareous cement
- 10% Limestone - as above, influx of minor white and light orange chalky limestone
-
- 4040-4050 70% Shale - as above
- 30% Sandstone - as above, occasional well-rounded, unconsolidated quartz grains
- Light trace limestone
-
- 4050-4060 100% Shale - reddish-orange, pale green, some buff and lavender, some blocky, some sub-waxy, firm, occasionally silty to very silty and sandy, slightly micromicaceous in part, occasionally slightly calcareous
- Trace sandstone
- Trace limestone

4060-4070	100%	<u>Shale</u> - as above, more abundant pale green to green-gray shale than above, some slightly micropyrritic. Trace limestone
4070-4080	60%	<u>Shale</u> - as above
	30%	<u>Sandstone</u> - predominantly very fine to medium unconsolidated quartzitic grains, clear to translucent, light orange in parts, angular to subrounded, occasionally reddish-orange, very fine to fine grained consolidated sand with clay cement, marly white calcareous consolidated sand, moderately sorted porosity uncertain, some tight, occasionally cherty, no shows, fluorescence, cuts, or odor
	10%	<u>Limestone</u> - white, occasionally light orange, light to medium gray-brown in parts, predominantly earthy to chalky, micro-crystalline in parts, soft to very firm, tight, no shows, cuts, fluorescence or odor

TOP HONAKER TRAIL

Samples very fine in size; probably due to dull bit; abundant cavings

4080-4090	50%	<u>Shale</u> - as above, occasionally marly, grading to argillaceous limestone
	30%	<u>Limestone</u> - buff to light brown, white in parts, micro-crystalline, earthy to chalky in parts, minor cryptocrystalline, soft to very firm, minor bioclastic, tight, no shows, fluorescence, cuts or odor
	20%	<u>Sandstone</u> - as above, predominantly fine to medium unconsolidated quartzitic grains, minor medium to coarse grains, some rounded to well rounded.
4090-4100	30%	<u>Shale</u> - as above
	30%	<u>Sandstone</u> - as above
	40%	<u>Limestone</u> - as above, fairly abundant bioclastic, occasionally oolitic
4100-4110	50%	<u>Shale</u> - as above, predominantly reddish-orange and pale green to gray-green
	10%	<u>Sandstone</u> - as above
	40%	<u>Limestone</u> - as above, buff to white, light brown in parts, rare cherty fragments
4110-4120	20%	<u>Shale</u> - as above
	30%	<u>Sandstone</u> - as above
	50%	<u>Limestone</u> - as above, abundant oolites, becoming an oolitic limestone

- 4120-4130 40% Shale - reddish-orange, green-gray, blocky, sub-waxy in part, silty to very silty and grading to siltstone in places, occasionally slight calcite with some marlstone, marly green-gray shale is micropyrritic, firm
- 10% Sandstone - predominantly very firm to medium unconsolidated quartz grain; clear to translucent, occasionally light orange, angular to sub-rounded, some rounded, poor to moderately sorted, cherty, porosity uncertain, no shows, fluorescence, cuts or odors
- 50% Limestone - buff to white, occasionally light brown, very oolitic, microcrystalline in parts, minor cryptocrystalline and chalky limestone, firm, some soft, trace bioclastic, tight, no shows, fluorescence, cuts or odors
- 4130-4140 40% Shale - as above
- 10% Sandstone - as above
- 50% Limestone - as above, minor light to medium limestone
- 4140-4150 50% Shale - as above
- 10% Sandstone - as above
- 40% Limestone - as above
- 4150-4160 30% Shale - as above
- 10% Sandstone - as above
- 60% Limestone - as above
- 4160-4170 40% Shale - as above
- 20% Sandstone - as above
- 40% Limestone - as above
- 4170-4180 40% Shale - as above, influx of fairly abundant medium to dark gray and occasionally black sub-fissile micromicaceous shale
- 40% Limestone - as above, minor oolite
- 20% Sandstone - as above, minor residual calcareous cement
- 4180-4190 30% Limestone - buff to light brown, buff to white in parts, cryptocrystalline to microcrystalline, minor earthy, trace oolite, firm to very firm in parts, tight, no shows, fluorescence, odors or cuts
- 30% Sandstone - predominantly fine to medium uncolidated quartz grains, some very fine grain; clear to translucent, occasionally light orange, angular to sub-rounded, occasionally well-rounded, moderately sorted, minor residual calcareous and clay cement, porosity uncertain, no shows, fluorescence, cuts or odors
- 40% Shale - reddish-orange, green-gray; medium to dark gray, blocky minor sub-waxy, firm, some silty and slightly micromicaceous, rarely slightly calcareous
- 4190-4200 30% Shale - as above
- 10% Sandstone - as above
- 60% Limestone - as above, influx of light to medium brown limestone, trace bioclastic

4200-4210	30%	<u>Shale</u> - as above
	10%	<u>Sandstone</u> - as above
	60%	<u>Limestone</u> - as above
4210-4220	20%	<u>Shale</u> - as above
	80%	<u>Limestone</u> - buff to light brown, occasionally medium brown, microcrystalline, occasionally cryptocrystalline, slightly dolomitic, firm, rarely micropyrritic, tight, no shows, fluorescence, cuts or odors
4220-4230	40%	<u>Shale</u> - as above, minor reddish-brown micromicaceous shale
	60%	<u>Limestone</u> - as above, trace orange chert Light trace sandstone
4230-4240	50%	<u>Shale</u> - as above
	50%	<u>Limestone</u> - as above Trace sandstone
4240-4250	20%	<u>Shale</u> - as above, marly in part
	80%	<u>Limestone</u> - as above, occasionally earthy and slightly argillaceous, some medium to dark gray very argillaceous limestone grading to marlstone, slightly micaceous in parts
4250-4260	10%	<u>Shale</u> - as above, some buff, very sandy shale
	90%	<u>Limestone</u> - as above, minor earthy to chalky
4260-4270	70%	<u>Shale</u> - medium brown, reddish-orange, minor pale green, blocky rarely sub-waxy, abundant very micromicaceous shale, firm some slightly calcareous, occasionally sandy and micropyrritic
	30%	<u>Limestone</u> - as above, rarely fine to medium crystalline Light trace sandstone, predominantly fine to medium unconsolidated quartz grains, some very fine consolidated sand with calcareous cement, trace glauconitic
4270-4280	70%	<u>Shale</u> - as above, occasionally silty
	30%	<u>Limestone</u> - as above, occasional light orange and light brown chert fragments, slightly more earthy to chalky than above Light trace sandstone as above
4280-4290	80%	<u>Shale</u> - as above, silty to very silty and occasionally grading to siltstone
	20%	<u>Limestone</u> - as above Light trace sandstone
4290-4300	60%	<u>Shale</u> - as above, predominantly reddish-orange, green-gray in parts, some medium brown shale as above
	20%	<u>Limestone</u> - buff to light brown, medium brown, microcrystalline, earthy to chalky, occasionally fine crystalline, some very argillaceous and sandy, firm, tight, no shows, fluorescence, cuts or odors
	20%	<u>Sandstone</u> - buff, salt and pepper in parts, very fine grain, sub-angular to sub-rounded, predominantly clay cement, occasionally calcareous, slightly cherty, trace glauconite, no visible porosity, no shows, fluorescence, cuts or odors
4300-4310	40%	<u>Shale</u> - as above, some slightly calcareous
	40%	<u>Limestone</u> - as above
	20%	<u>Sandstone</u> - as above, very calcareous in parts and grading to a sandy limestone

- 4310-4320 80% Limestone - buff to white, light brown, cryptocrystalline to microcrystalline, some earthy, soft to firm, very clean, no visible porosity, tight, no shows, fluorescence, odors or cuts
20% Shale - reddish-orange, occasionally medium gray and medium brown, blocky, slightly calcareous in parts, firm, occasionally micromicaceous
- 4320-4330 70% Limestone - as above, becoming light to medium brown
30% Shale - as above, influx of medium to dark gray and very micromicaceous shale
- 4330-4340 70% Limestone - as above
30% Shale - as above
- 4340-4350 70% Limestone - as above, rare medium to dark brown
30% Shale - as above
- 4350-4360 40% Limestone - as above, some fine to medium cryptocrystalline
50% Shale - as above, predominantly reddish-orange, green-gray and medium to dark gray in parts
10% Sandstone - buff, very fine to fine grained, occasionally medium grained, sub-angular to sub-rounded, predominantly unconsolidated, some cemented with calcite, slightly cherty, friable, trace poorly intergranulated porosity, tight, no shows, fluorescence, odors or cuts
- 4360-4370 40% Sandstone - as above, becoming predominantly consolidated, trace glauconitic, occasional biotite flakes, friable to firm, occasional medium to coarse unconsolidated grain
50% Shale - reddish-orange, medium brown, medium to dark gray in part, blocky, some very micromicaceous, slightly calcareous in parts, minor marly shale, some silty
10% Limestone - light brown, buff, occasional medium brown, microcrystalline, earthy to chalky, soft to firm, some sandy and argillaceous in parts, tight, no shows, fluorescence, odors or cuts

Abundant pipe dope

- 4370-4380 60% Shale - as above
40% Limestone - as above, becoming predominantly light brown microcrystalline, some chalky
Trace sandstone, as above
- 4380-4390 90% Shale - reddish-orange, green-gray, occasionally reddish-brown and medium brown, blocky, some sub-waxy, slightly calcareous, some marly, slight to occasional micromicaceous, some silty, firm
10% Sandstone - as above
Light trace limestone, as above, predominantly chalky

- 4390-4400 60% Sandstone - buff, very fine to fine grain, sub-angular, to sub-rounded, calcareous cement, friable, well sorted occasionally slightly argillaceous, slightly cherty, occasional unconsolidated fine to medium quartz grains, trace glauconitic, no visible porosity, no shows, fluorescence, cuts or odors
30% Shale - as above
10% Limestone - as above
- 4400-4410 40% Shale - as above, predominantly reddish-orange and green-gray
40% Limestone - as above
20% Sandstone - as above
- 4410-4420 30% Shale - as above, some medium to dark gray-brown and marly, grading to argillaceous limestone
70% Limestone - buff to white, light brown, rarely medium brown, cryptocrystalline to microcrystalline, earthy in parts, some chalky, firm, some soft, occasional chert fragments, some very argillaceous and grading to calcareous shale, tight, no shows, fluorescence, odors or cuts
Light trace sandstone, predominantly fine to medium unconsolidated quartz grains
- 4420-4430 70% Limestone - as above, abundant medium to dark gray-brown limestone, grading to calcareous shale in parts, micromicaceous
30% Shale - as above, abundant medium to dark brown shale grading to argillaceous limestone in part
- 4430-4440 50% Limestone - as above, earthy to chalky in parts, occasionally sandy
30% Shale - as above, some sandy
20% Sandstone - buff to white, very fine to fine grain, occasional medium green, sub-angular to sub-rounded, siliceous and clay cement, some calcareous, slightly cherty, trace glauconitic, firm occasionally friable, no visible porosity, no shows, fluorescence, odors or cuts
- 4440-4450 60% Shale - reddish-orange, green-gray, some red-brown and medium to dark gray-brown, blocky, some sub-waxy, occasionally marly, some silty and micromicaceous, firm occasionally sandy in parts
30% Limestone - as above
10% Sandstone - as above
- 4450-4460 50% Shale - as above, becoming predominantly medium to dark brown and very micromicaceous, abundant biotitic flakes
30% Sandstone - as above, abundant fine to medium unconsolidated grain
20% Limestone - as above
- 4460-4470 60% Shale - as above
30% Sandstone - as above
10% Limestone - as above

- 4470-4480 80% Shale - as above, medium to dark brown, reddish-orange green-gray
10% Sandstone - as above
10% Limestone - as above
- 4480-4490 80% Shale - as above
10% Sandstone - as above
10% Limestone - as above
- 4490-4500 90% Shale - as above
10% Sandstone - as above
Light trace limestone, as above
- 4500-4510 100% Shale - as above
Light trace sandstone, as above
Light trace limestone, as above
- 4510-4520 70% Shale - as above
30% Sandstone - light to medium brown, buff in part, very fine to fine grain, sub-angular to sub-rounded, calcareous and clay cement, medium to well sorted, some fine to medium unconsolidated quartz grains, friable to firm, slightly cherty, no visible porosity, no shows, fluorescence, odors or cuts
Light trace limestone
- 4520-4530 90% Shale - reddish-orange, green-gray, medium to dark brown, blocky, occasionally silty, some marly, occasionally micromicaceous, rarely sandy
10% Sandstone - as above
Light trace limestone, buff to white, occasionally light gray, earthy to chalky, some microcrystalline, tight, no shows, fluorescence, odors or cuts
- 4530-4540 70% Shale - as above
20% Sandstone - as above
10% Limestone - as above, trace chert fragments
- 4540-4550 90% Shale - as above
10% Limestone - as above
Light trace sandstone
- 4550-4560 60% Shale - medium to dark brown, reddish-orange, green-gray, blocky, very micromicaceous in parts, some silty and sandy, medium firm to firm, rarely marly
40% Limestone - buff to white, light brown, cryptocrystalline to microcrystalline, firm, some denser, tight, no shows, Light trace sandstone
- 4560-4570 40% Limestone - as above, some earthy to chalky
60% Shale - as above
Light trace sandstone, predominantly fine to medium unconsolidated quartz grains

- 4570-4580 40% Limestone - as above
60% Shale - as above
Light trace sandstone
- 4580-4590 40% Limestone - as above
50% Shale - as above
10% Sandstone - buff to light brown, very fine to fine grain, sub-angular to sub-rounded, calcareous and clay cement, slightly to very argillaceous, friable to firm, slightly cherty, occasionally unconsolidated fine to medium quartz grains
- 4590-4600 50% Sandstone - as above, predominantly fine to medium unconsolidated angular to sub-rounded quartz grains, residual pale green clay cement
40% Shale - as above
10% Limestone - as above
- 4600-4610 60% Sandstone - as above
30% Shale - as above
10% Limestone - as above
- 4610-4620 40% Sandstone - light gray, buff, very fine grain, fine grain in parts, sub-angular to sub-rounded, calcareous and clay cement, friable, slightly cherty, trace glauconitic, occasionally fine to medium unconsolidated quartz grains, trace poorly intergranulated porosity, tight, no shows, fluorescence, odors or cuts
50% Shale - light to medium gray, reddish-orange, occasionally green-gray, blocky, slightly calcareous, occasionally marly, slightly to very micromicaceous, some silty, firm
10% Limestone - buff to white, light brown, microcrystalline, earthy, firm, tight, no shows, fluorescence, odors or cuts
- 4620-4620 50% Limestone - as above, buff to light gray in parts, occasionally chalky
20% Shale - as above, predominantly light to medium gray
30% Sandstone - as above, more abundant fine to medium unconsolidated quartz grains than above
- 4630-4640 70% Limestone - as above
20% Shale - as above
10% Sandstone - as above
- 4640-4650 100% Shale - reddish-orange, green-gray, some variegated, blocky, slightly, calcareous in parts, some slightly silty, firm, rarely sandy grained
Light trace limestone
- 4650-4660 40% Sandstone - predominantly fine to medium unconsolidated quartz grains; clear to translucent, occasionally light orange, sub-angular to occasionally rounded, residual pale green clay cement
30% Shale - as above, medium gray in parts
30% Limestone - light to occasionally medium brown, some buff, microcrystalline, minor cryptocrystalline, firm no visible porosity, tight, no shows, fluorescence, odors or cuts

- 4660-4670 100% Shale - red, orange, green-gray, reddish-brown in parts, blocky, rarely slightly micromicaceous, some sub-waxy and slightly sandy, slightly micropyrritic, slightly calcareous in parts
- 4670-4680 90% Shale - as above, more abundant green-gray and above, some light gray
 10% Sandstone - predominantly fine to medium unconsolidated quartz grains; clear to translucent, sub-angular to sub-rounded, minor residual clay cement, porosity uncertain, no shows, fluorescence, odors or cuts
- 4680-4690 50% Shale - as above, more abundant light to medium gray than above
 40% Limestone - buff to light brown, occasionally light gray, microcrystalline, some fine crystalline and cryptocrystalline, firm, no visible porosity, tight, no shows, fluorescence, odors or cuts
 10% Sandstone - predominantly fine to medium unconsolidated quartz grains, sub-angular to sub-rounded
- 4690-4700 50% Limestone - as above, light to medium brown in parts, slightly argillaceous in parts
 30% Shale - as above, some very microcaceous and medium to dark brown
 20% Sandstone - as above
- 4700-4710 60% Shale - reddish-orange, medium to dark gray-brown and very micromicaceous, blocky, firm, some silty and occasionally sandy, occasionally slightly calcareous
 30% Limestone - as above
 10% Sandstone - as above
- 4710-4720 60% Shale - as above
 20% Limestone - as above, light orange in parts
 20% Sandstone - as above, minor consolidated sand
- 4720-4730 50% Shale - as above
 20% Limestone - as above
 30% Sandstone - as above, influx of some reddish-orange very fine to fine argillaceous sand, angular to sub-rounded, well sorted
- 4730-4740 60% Shale - as above
 30% Limestone - light brown, light gray, some buff, microcrystalline, occasionally fine to medium crystalline, firm, no visible porosity, no shows, fluorescence, odors or cuts
 10% Sandstone - predominantly fine to medium unconsolidated quartz grains; clear to translucent, occasionally light orange, sub-angular to sub-rounded, minor residual clay cement
- 4740-4750 70% Shale - reddish-orange, medium to dark gray-brown and very micromicaceous; some green-gray, blocky occasionally silty and slightly micromicaceous, occasionally very abundant biotite flakes, some slightly calcareous
 30% Limestone - as above, occasionally light to medium brown, some white and earthy to chalky limestone
 Light trace sandstone

- 4750-4760 80% Shale - as above
 20% Limestone - as above, trace oolitic (cavings?).
 Light trace sandstone
- 4760-4770 60% Shale - as above, minor apple green shale, sub-waxy in parts
 30% Limestone - as above
 10% Sandstone - as above, some consolidated sand
- 4770-4780 80% Shale - as above, some very sandy shale, grading to argillaceous sandstone in parts, occasionally slight to very silty
 10% Limestone - as above
 10% Sandstone - as above

Top Paradox

- 4780-4790 70% Shale - reddish-orange, green-gray, influx of medium to dark gray and slightly calcareous shale, blocky, some occasionally silty and sandy, occasionally sub-waxy, micropyrritic in parts
 20% Limestone - as above
 10% Sandstone - as above
- 4790-4800 70% Shale - reddish-orange, medium to dark gray-brown in parts, occasionally green-gray, blocky, some very calcareous and grading to argillaceous limestone, firm, occasionally silty, some slightly micromicaceous
 30% Limestone - medium to dark brown, occasionally light brown, microcrystalline, some very argillaceous and grading to a calcareous shale, firm to occasionally very firm, no visible porosity, no shows, fluorescence odors or cuts
- 4800-4810 60% Limestone - as above, medium to dark gray brown and very argillaceous as above, slightly micromicaceous
 40% Shale - as above
- 4810-4820 70% Limestone - as above
 30% Shale - as above
- 4820-4830 90% Limestone - buff to light brown, minor medium to dark gray brown argillaceous limestone as above, cryptocrystalline to microcrystalline, occasionally earthy, firm to very firm, some soft, occasionally brittle, dense in parts, clean, tight, no shows, fluorescence, odors or cuts
 10% Shale - as above
- 4830-4840 60% Limestone - medium to dark gray brown, some buff to light brown as above, microcrystalline, predominantly very argillaceous and grading to calcareous shale, slightly micromicaceous, moderately soft to firm, tight, no shows, fluorescence, odors or cuts
 40% Shale - as above, predominantly reddish-orange

4840-4850	70%	<u>Limestone</u> - as above
	30%	<u>Shale</u> - as above
4850-4860	60%	<u>Limestone</u> - as above
	40%	<u>Shale</u> - as above
4860-4870	90%	<u>Limestone</u> - light brown, buff in parts, some medium to dark brown, argillaceous, as above, cryptocrystalline to microcrystalline, some earthy, trace microcrystalline, moderately soft to occasionally very firm, dense in parts, tight, no shows, fluorescence, odors, cuts
	10%	<u>Shale</u> - predominantly reddish-orange, occasionally medium to dark gray-brown, grading to argillaceous limestone, blocky, firm, occasionally silty and slightly micromicaceous
4870-4880	100%	<u>Limestone</u> - as above
		Trace shale - as above
4880-4890	100%	<u>Limestone</u> - as above, slightly more argillaceous than above Light trace shale
4890-4900	90%	<u>Limestone</u> - as above, light brown and medium to dark gray-brown, as above
	10%	<u>Shale</u> - as above
4900-4910	30%	<u>Limestone</u> - as above
	40%	<u>Shale</u> - as above, occasionally reddish-brown, medium brown, very micromicaceous
	30%	<u>Sandstone</u> - light green-gray, light brown, very fine grained, occasionally fine grained, subangular, calcareous, clay cement; friable, slightly cherty, glauconitic in parts, occasional biotite flakes, fairly abundant fine to medium unconsolidated quartzitic grains, no visible porosity, porosity uncertain, no shows, cuts, fluorescence, or odor
4910-4920	80%	<u>Sandstone</u> - predominantly fine to medium unconsolidated quartz grains, occasionally very fine grained, clear to translucent, light orange, angular to subrounded, moderate to well sorted, residual green-gray clay cement, minor consolidated sand, porosity uncertain, no shows, cuts, fluorescence, odor
	10%	<u>Limestone</u> - as above, predominantly light brown, medium brown in parts, occasional chert fragments
	10%	<u>Shale</u> - as above
4920-4930	60%	<u>Sandstone</u> - as above, minor medium to coarse rounded grains
	20%	<u>Limestone</u> - as above, light to medium brown, some buff & earthy
	20%	<u>Shale</u> - reddish-orange, medium brown, very micromicaceous, some green-gray, blocky, some marly, occasionally silty, firm
4930-4940	90%	<u>Shale</u> - as above, more abundant medium brown shale than above, some slightly calcareous
	10%	<u>Limestone</u> - as above Light trace sandstone

- 4940-4950 90% Shale - as above, becoming predominantly medium brown and very micromicaceous. abundant green-gray shale also,
reddish-orange in parts
10% Limestone - as above
Light trace sandstone
- 4950-4960 100% Shale - as above
Light trace limestone as above, predominantly buff to white and earthy
Light trace sandstone
- 4960-4970 70% Limestone - buff to light brown, some white, cryptocrystalline, to microcrystalline, occasionally earthy to chalky, soft to firm, some dense, rarely slightly argillaceous, no visible porosity, no shows, fluorescence, odors or cuts
30% Shale - as above, predominantly reddish-orange and green-gray
- 4970-4980 70% Limestone - as above, occasionally light to medium brown
30% Shale - as above, some green-gray very sandy shale
- 4980-4990 100% Shale - predominantly medium to dark brown and very micromicaceous, some reddish-orange and green-gray, blocky, occasionally sandy, some with abundant biotite flakes, moderately soft to firm, calcareous
Light trace limestone as above
Light trace sandstone, predominantly fine to medium quartz grain
- 4990-5000 70% Limestone - as above, some medium to dark gray-brown and very argillaceous limestone, grading to calcareous shale in parts, occasional cherty fragments
30% Shale - predominantly reddish-orange and green-gray, some medium to dark brown shale as above
- 5000-5010 100% Limestone - predominantly light brown, occasionally medium brown and slightly argillaceous, some buff to white, cryptocrystalline to microcrystalline, some earthy to chalky, firm, some soft, dense, tight, no shows, fluorescence, odors or cuts
Light trace shale, as above
- 5010-5020 80% Limestone - as above, more abundant medium to dark gray-brown argillaceous limestone than above, occasionally clear cherty fragments
20% Shale - as above
- 5020-5030 60% Limestone - as above, fairly abundant clear to yellow chert fragments
40% Shale - as above
- 5030-5040 80% Limestone - as above, medium to dark gray-brown and very argillaceous, buff to light brown, abundant chert as above, some dark brown chert fragments
20% Shale - reddish-orange, green-gray, occasionally medium to dark gray-brown and very calcareous, grading to argillaceous limestone in parts, blocky, firm

- 5040-5050 90% Limestone - as above, becoming predominantly light brown and cryptocrystalline to microcrystalline, occasionally buff and earthy, some medium to dark gray-brown limestone as above, rarely firm to medium crystalline, minor chert fragments
10% Shale - as above
- 5050-5060 90% Limestone - as above
10% Shale - as above
- 5060-5070 80% Limestone - as above
20% Shale - as above
- 5070-5080 80% Limestone - as above, buff to white and more earthy to chalky than above
20% Shale - as above
- 5080-5090 100% Limestone - light brown, minor buff and medium to dark gray-brown limestone, cryptocrystalline to microcrystalline, some earthy to chalky, predominantly firm and dense, some moderately soft, occasionally medium to dark brown chert fragments, tight, no shows, fluorescence, odor or cuts
Light trace shale, as above
- 5090-5100 80% Limestone - as above, influx of very abundant medium to dark gray-brown and very argillaceous limestone, grading to a calcareous shale, some light gray silty limestone
20% Shale - as above, predominantly reddish-orange and medium to dark gray calcareous shale
- 5100-5110 80% Limestone - as above, predominantly medium to dark gray-brown and very argillaceous
20% Shale - as above, occasionally green-gray
- 5110-5120 70% Limestone - as above
30% Shale - as above, more green-gray shale than above, sub-waxy in parts
- 5120-5130 80% Limestone - as above, rarely oolitic (cavings?)
20% Shale - as above
- 5130-5140 60% Limestone - as above, occasionally buff to white and chalky
40% Shale - as above, some sandy green-gray shale
- 5140-5150 60% Limestone - as above
40% Shale - as above
- 5150-5160 80% Limestone - light brown, medium to dark gray-brown, occasionally buff, light gray, microcrystalline, occasionally cryptocrystalline and earthy, abundant very argillaceous limestone grading to calcareous shale in parts, firm, occasionally dense, slightly micromicaceous, tight, no shows, fluorescence, odors, or cuts
20% Shale - reddish-orange, green-gray, occasionally medium to dark gray-brown and very calcareous, grading to argillaceous limestone in parts, blocky, sub-waxy in parts, some silty

- 5160-5170 80% Limestone - as above, predominantly medium to dark gray-brown and very argillaceous, occasionally silty
20% Shale - as above
- 5170-5180 80% Limestone - as above, occasionally medium to dark brown cryptocrystalline limestone, fairly abundant dark brown chert fragments, no visible porosity, no shows, fluorescence, odors or cuts
20% Shale - as above, more abundant medium to dark gray-brown and calcareous shale than above, minor dark gray-brown to black
- 5180-5190 80% Limestone - buff to white, light brown, minor medium to dark gray-brown argillaceous limestone, cryptocrystalline to microcrystalline, earthy to chalky, moderately soft to firm occasional light brown chert fragments, dense in parts, no visible porosity, no shows, fluorescence, odors or cuts
20% Shale - as above, predominantly reddish-orange and green-gray
- 5190-5200 80% Limestone - as above, becoming medium to occasionally gray-brown and very argillaceous, some light gray, trace mesocrystalline
20% Shale - as above
- 5200-5210 100% Limestone - predominantly light brown, buff to occasionally white, minor medium to dark gray-brown as above, cryptocrystalline to microcrystalline, occasionally earthy, minor firm to medium crystalline, moderately soft to very firm, some dense, minor sandy limestone, trace bioclastic, tight, no shows, fluorescence, odors or cuts
Light trace shale
- DST #1 and #2 Paradox 5145'-5201'
Fairly abundant pipe dope
- 5210-5220 90% Limestone - predominantly light to medium gray-brown, occasionally dark gray-brown, microcrystalline, earthy, very argillaceous, grading to calcareous shale, moderately soft to firm, tight, no shows, fluorescence, odors or cuts
10% Shale - predominantly reddish-orange cavings
- 5220-5230 100% Limestone - as above, more microcrystalline than above, earthy to sub-chalky in parts
Light trace shale, as above
- 5230-5240 100% Limestone - as above, becoming predominantly medium to dark gray-brown, light gray and silty in parts, some slightly micromicaceous
Light trace shale, as above
- 5240-5250 90% Limestone - as above, more abundant light gray and silty limestone than above; some buff to white fine to medium crystalline limestone exhibiting poor to occasionally fair intercrystalline porosity, slightly silty, no shows, fluorescence, odors or cuts
10% Shale - predominantly reddish-orange cavings, minor reddish-brown shale

- 5250-5260 90% Limestone - medium to dark brown, buff to light gray, rarely buff to white, predominantly microcrystalline and very argillaceous, light gray earthy and slightly silty limestone in parts, minor buff to white porosity fine to medium crystalline as above, rarely sandy limestone, moderately soft to firm, no shows, fluorescence, odors or cuts
- 10% Shale - as above
Light trace sandstone, buff to light brown, very fine to fine grains, predominantly clay cement, slightly calcareous, friable, micromicaceous, tight, no shows, fluorescence, odors or cuts
- 5260-5270 90% Limestone - as above
- 10% Shale - as above
Light trace sandstone, as above, some with abundant biotite flakes, slightly cherty in parts, rarely firm with minor siliceous and calcareous cement
- 5270-5280 100% Limestone - abundant light gray earthy and slightly silty limestone; some white earthy limestone, occasionally white and gray mottled chalky limestone
Light trace shale, as above
Light trace sandstone, as above
- 5280-5290 100% Limestone - light gray to light gray-brown; occasionally buff to light brown microcrystalline and firm to medium crystalline limestone, predominantly earthy and silty and very argillaceous microcrystalline limestone, moderately soft to firm, rarely slightly micromicaceous, no visible porosity, no shows, fluorescence, odors or cuts
Light trace shale, as above
Trace sandstone, as above
- 5290-5300 100% Limestone - as above, fairly abundant buff to white fine to medium crystalline and occasional earthy to chalky limestone
Light trace sandstone, as above
Trace shale
- 5300-5310 100% Limestone - as above
Light trace sandstone
- 5310-5320 100% Limestone - medium to dark gray-brown very argillaceous limestone and buff to light gray earthy to chalky and slightly silty limestone, minor light gray-brown fine to medium crystalline limestone; moderately soft to firm, slightly micromicaceous in parts, tight, no shows, fluorescence, odors or cuts
- 5320-5330 100% Limestone - as above, predominantly medium to dark gray-brown limestone which is grading to a calcareous shale as above, light gray earthy to chalky and slightly silty in parts, minor light brown microcrystalline limestone
Light trace shale, predominantly reddish-orange cavings

5330-5340 100% Limestone - as above, more abundant light brown microcrystalline limestone, minor light to dark brown chert fragments
Light trace shale, as above
Trace sandstone, white, very fine grained, siliceous and clay cement, firm

5340-5350 100% Limestone - as above, slightly more firm to medium crystalline limestone, trace very dark brown cryptocrystalline limestone, trace bioclastic
Light trace shale, as above

Abundant uphole cavings

5350-5360 60% Limestone - as above, some light to medium brown dolomitic cryptocrystalline limestone, occasionally light pink to light orange argillaceous limestone, abundant dark brown chert
40% Shale - reddish-orange, light orange, some medium brown, blocky, some calcareous to very calcareous and grading to an argillaceous limestone, firm, some silty, occasionally slightly to very micromicaceous

Abundant uphole cavings

5360-5370 60% Shale - as above
40% Limestone - as above, rarely dolomitic limestone, minor chert

5370-5380 50% Limestone - as above, fairly abundant light gray microcrystalline and fine to medium crystalline limestone, chert fragments
50% Shale - as above, some occasionally sandy

Abundant LCM

5390-5400 80% Limestone - as above, minor very sandy limestone, grading to a calcareous siltstone, slightly to very micromicaceous in parts
20% Shale - as above, occasionally reddish-brown and very micromicaceous

5400-5410 80% Limestone - as above, more medium to dark gray-brown and argillaceous limestone than above, minor buff to white limestone, trace bioclastic, occasionally clear, dark brown cherty fragments
20% Shale - as above, minor green-gray dense shale

Abundant Cavings (Top Hovenweep Shale)

5410-5420 60% Shale - as above; influx of dark to very dark gray-brown calcareous to very calcareous shale, grading to a very argillaceous limestone, carbonaceous, slightly micromicaceous and silty, blocky, firm; some brittle; predominantly reddish-orange shale
40% Limestone - as above, predominantly medium to dark gray brown and grading to a calcareous shale

Abundant cavings

- 5420-5430 60% Shale - as above, dark to very dark gray-brown and reddish-orange, becoming very dark gray-brown, very carbonaceous in parts
40% Limestone - as above, abundant buff to light brown microcrystalline and fine to medium crystalline limestone

Abundant cavings

- 5430-5440 70% Shale - as above, sub-fissile in parts, occasionally black carbonaceous material
30% Limestone - predominantly buff to light brown, microcrystalline, fine to medium crystalline, firm, hard in parts, tight, no shows, fluorescence, odors or cuts
Trace coal, black vitreous lustre, brittle

Abundant cavings Top Lower Upper Ismay (Base and Shale)

- 5440-5450 10% Anhydrite - white, microcrystalline, chalky, occasionally fibrous, soft to moderately firm
50% Limestone - buff to light brown, occasionally medium brown, mottled, fine to medium crystalline in parts, some slightly argillaceous, moderately soft to very firm, some dense, occasional anhydrite inclusion, tight, no shows, fluorescence odor or cuts
40% Shale - as above
- 5450-5460 80% Limestone - buff to light brown, white, light gray in parts, predominantly earthy, fine to medium crystalline and occasionally microcrystalline in parts, moderately soft to occasionally firm, predominantly clean, minor slightly argillaceous limestone, no visible porosity, no shows, fluorescence, odor or cuts
20% Shale - reddish-orange and medium to very dark gray-brown as above
Trace anhydrite
- 5460-5470 80% Limestone - as above, rarely chalky
20% Shale - as above, predominantly reddish-orange cavings
Trace anhydrite
- 5470-5480 70% Limestone - as above, occasionally dead oil stained, occasionally medium to dark gray-brown and very argillaceous, grading to calcareous shale
30% Shale - as above, occasionally some dark to very dark gray-brown calcareous and carbonaceous shale, sub-fissile in parts, some slightly silty, slightly micromicaceous
Trace anhydrite

5480-5490 20% Dolomite - light brown, buff to light gray, very fine crystalline, earthy to chalky in parts, moderately firm, slightly argillaceous, silty, slightly limy in parts, trace poor intercrystalline porosity, no shows, fluorescence, odors or cuts
60% Limestone - as above, occasional slight dolomite, some chalky
20% Shale - as above
Trace anhydrite

5490-5500 40% Dolomite - as above, abundant white earthy to chalky dolomite, very argillaceous in parts, some slight to very calcareous, firm to hard in parts
40% Limestone - as above, becoming very fine crystalline and slight to very dolomitic in parts, some white to chalky limestone
20% Shale - as above

Sample quality is greatly improved

Top Lower Ismay Shale

5500-5510 60% Shale - moderate to occasional very dark gray-brown, occasionally reddish-orange, blocky, sub-fissile in parts, slight to very calcareous, slightly silty and micropyrritic, grading to argillaceous limestone in parts, slightly carbonaceous, firm
30% Limestone - as above, some medium to dark gray-brown and very argillaceous shale
10% Dolomite - as above

Abundant LCM

5510-5520 60% Shale - as above, slightly more carbonaceous material than above, rare bioclastic
30% Limestone - as above, trace bioclastic
10% Dolomite - as above

Abundant LCM

5520-5530 90% Shale - as above predominantly dark to very dark and very argillaceous as above, slightly micromicaceous in parts
10% Limestone - as above

Some LCM

5530-5540 100% Shale - dark to very dark gray-brown, occasionally medium gray-brown, blocky, occasionally sub-fissile, slight to occasionally very calcareous, slightly silty and micropyrritic, rare grading to a very argillaceous limestone, carbonaceous, firm, slightly micromicaceous in parts, some very dark orange cavings
Light trace limestone

5540-5550 90% Shale - as above
10% Limestone - as above

5550-5560 90% Shale - as above
10% Limestone - as above

DST #3 Lower Upper Ismay 5468'-5552

5560-5570 100% Shale - as above, minor gray-green shale
Light trace limestone

5570-5580 100% Shale - as above
Light trace limestone

5580-5590 80% Limestone - light gray, some buff, earthy to sub-chalky,
very argillaceous and silty, grading to a calcareous siltstone
In parts, some microcrystalline, moderately soft to occasionally
very firm, slightly micromicaceous in parts
20% Shale - as above
Trace anhydrite - white, chalky, soft, gummy

5590-5600 70% Shale - as above
30% Limestone - as above
Trace anhydrite - as above, some microcrystalline and moderately
firm

5600-5610 50% Anhydrite - white, chalky, silky, occasionally crystalline,
predominantly soft and gummy, some moderately firm
30% Shale - as above, very dark gray-brown to black in parts
20% Limestone - as above, light to medium brown and cryptocrystalline
to microcrystalline, some dense

5610-5620 30% Anhydrite - as above
60% Limestone - light to medium brown, buff to light gray in
parts, mottled, earthy, microcrystalline, minor fine to
medium crystalline, slight to moderately argillaceous, slightly
silty, minor fractures with black, dead bitumen on faces,
moderately firm to firm, tight, no shows, fluorescence, odor
or cuts
10% Shale - as above

Top Lower Ismay Porosity

5620-5630 80% Limestone - buff, light gray to medium gray-brown, earthy
and very fine crystalline, minor fine to medium crystalline,
slight to very dolomitic, some grading to a limy dolomite,
some argillaceous, friable to firm, trace dead oil stain,
minor 7%-9% intercrystalline porosity, some tight, no shows,
fluorescence, odors or cuts
10% Anhydrite - as above
10% Shale - as above

5630-5640 90% Limestone - as above, becoming predominantly buff, very dolo-
mitic and fine crystalline, some earthy, occasionally limy
dolomite, rare argillaceous, minor porosity (9-11%), no shows,
fluorescence, odors or cuts
10% Shale - as above

Top "B" Zone Shale

- 5640-5650 90% Shale - dark to very dark gray-brown, occasionally medium gray-brown, blocky, rare sub-fissile, slight to very calcareous, firm, carbonaceous, occasionally slightly silty, some micropyrictic, minor microamination of limestone
- 10% Limestone - light to medium brown, occasionally buff, fine to medium crystalline, some fine crystalline and earthy, occasionally argillaceous, predominantly tight, occasionally porosity as above, no shows, fluorescence, odors or cuts

LCM

- 5650-5660 90% Shale - as above, very dark gray-brown to occasionally blocky, very carbonaceous in parts, very slightly micromicaceous in parts, some reddish-orange cavings
- 10% Limestone - as above, predominantly fine crystalline
- 5660-5670 100% Shale - as above, more medium to dark gray-brown than above, some moderately soft
Light trace limestone
- 5670-5680 100% Shale - as above
Light trace limestone
- 5680-5690 100% Shale - as above
Light trace limestone

Top Desert Creek

- 5690-5700 50% Limestone - buff, light brown, earthy, very sandy with some grading to a very calcareous very fine grained sandstone, occasionally grading to a calcareous siltstone, slightly argillaceous, slightly cherty and micromicaceous, friable to moderately firm, poorly intergranulated porosity, some tight, no shows, fluorescence, odors or cuts
- 50% Shale - as above
- 5700-5710 60% Limestone - as above
- 40% Shale - as above
Light trace anhydrite - white, chalky, minor crystalline, soft to moderately soft, gummy in parts
- 5710-5720 20% Anhydrite - as above
- 70% Limestone - as above, buff to light gray-brown, mottled, earthy, argillaceous and silty, some very silty, moderately soft to form, abundant anhydrite included, rare slightly micromicaceous, tight, no shows, fluorescence, odors or cuts
- 10% Shale - dark to very dark gray-brown, blocky, slight to very calcareous, carbonaceous, firm, occasionally silty, slightly micromicaceous

5730-5740	20%	<u>Dolomite</u> - buff to light gray-brown, earthy, argillaceous, silty, minor microcrystalline, moderately soft to firm, tight, no shows, fluorescence, odors, cuts
	10%	<u>Anhydrite</u> - as above
	40%	<u>Limestone</u> - as above
	30%	<u>Shale</u> - as above

TOP DESERT CREEK POROSITY

5740-5750	50%	<u>Dolomite</u> - buff to light gray-brown, occasionally light brown, predominantly microcrystalline, earthy, silty, as above, occasionally fine crystalline, firm to hard, some dense, poor to occasionally fair variegated & intercrystalline porosity, euhedral crystals on concave surfaces indicating possibility of large vugs, some tight, some black dead bitumen infilling porosity, occasional anhydritic inclusions, no shows, fluorescence, odors, cuts
	20%	<u>Limestone</u> - as above, becoming predominantly medium brown, microcrystalline, some earthy, orange
	20%	<u>Anhydrite</u> - white, chalky, occasionally crystalline, soft to moderately soft, gummy
	10%	<u>Shale</u> - as above
5750-5760	70%	<u>Dolomite</u> - as above, predominantly microcrystalline, fair to good intercrystalline and vug porosity, abundant euhedral crystals indicating large vugs, fairly abundant black dead bitumen, minor bioclastic fragments with rare mother-of-pearl, some tight, trace anhydritic inclusions, no shows, cuts, odors, or fluorescence
	20%	<u>Anhydrite</u> - as above
	10%	<u>Shale</u> - as above, influx of very dark gray-brown to black carbonaceous shale, some dense, calcareous to very calcareous in parts Light trace limestone, as above
5760-5770	100%	<u>Dolomite</u> - light to occasional medium gray-brown, earthy, argillaceous, grading to a dolomitic shale in parts, occasionally microcrystalline porosity, as above, slightly silty, moderately firm to firm Trace shale Trace limestone Trace anhydrite
5770-5780	90%	<u>Shale</u> - very dark gray-brown, black, blocky, carbonaceous, slightly to very calcareous, slightly silty, moderately firm, swells and falls apart in water (carbonaceous), gummy, slightly gummy, slightly micromicaceous in parts
	10%	<u>Dolomite</u> - as above Trace limestone

Top Akah

- 5780-5790 60% Dolomite - buff to light brown, gray-brown in parts, very fine to fine occasional microcrystalline, microcrystalline in parts, firm to hard, slightly limy in parts. clean, fair to rarely good intercrystalline porosity, some tight, some euhedral crystallines suggest possible large vugs, minor black dead bitumen, no shows, fluorescence, cuts or odors
40% Shale - as above
- 5790-5800 70% Dolomite - as above, becoming predominantly buff to light gray-brown, earthy and very silty, occasionally sandy, argillaceous, grading to a very dolomitic siltstone, slight to moderately limy in parts, slightly micromicaceous, poorly intergranulated intercrystalline porosity, no shows, fluorescence, odors or cuts
30% Shale - as above, trace pyrite
Light trace limestone, buff to light brown, microcrystalline, occasionally fine to medium crystalline, firm, slightly dolomitic in parts, tight, no shows, fluorescence, odors or cuts
- 5800-5810 30% Limestone - buff to light brown, mottled, fine to medium crystalline, sub-earthy in parts, minor microcrystalline, moderately firm to firm, trace bioclastic, tight, no shows, fluorescence, odors or cuts
40% Dolomite - as above
30% Shale - as above, predominantly very dark gray-brown to black, some medium gray-brown and slightly carbonaceous, dolomitic in parts
- 5810-5820 10% Anhydrite - white, chalky, minor crystalline, soft, included in dolomite
70% Dolomite - as above, some buff to white, more abundant light brown microcrystalline and dense dolomite than above, trace bioclastic, occasional anhydritic inclusion
20% Limestone - as above, occasionally medium brown microcrystalline limestone
Light trace shale
- 5820-5830 60% Dolomite - as above, rare buff to white, no evidence of bioclastic
10% Limestone - as above, some buff to white clean limestone, slightly cherty
30% Shale - as above, some dolomite
Light trace anhydrite

Top Salt (picked on drill rate)

- 5830-5840 20% Dolomite - as above
60% Shale - as above, occasionally splintery, medium brown in parts
20% Limestone - as above
Light trace anhydrite

June 18, 1981

Wexpro Company
P. O. Box 1129
Rock Springs, Wyoming 82901

RE: See Attached Sheet

Gentlemen:

In reference to above mentioned wells, considerable time has gone by since approval was obtained from this office.

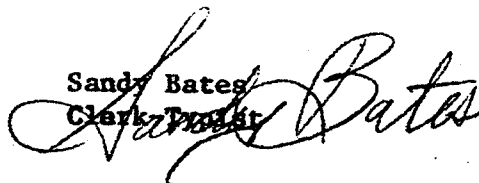
This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan on drilling these locations at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Sandy Bates
Clerk, Treasury

A large, stylized handwritten signature in cursive script, appearing to read "Sandy Bates", is written over the typed name and title.

1. Well No. Patterson Unit #3
Sec. 32, T. 37S, R. 25E
San Juan County, Utah
2. Well No. Bug #5
Sec. 15, T. 36S, R. 26E
San Juan County, Utah
3. Well No. Bug #13
Sec. 17, T. 36S, R. 26E
San Juan County, Utah
4. Well No. Bug #11
Sec. 21, T. 36S, R. 26E.
San Juan County, Utah
5. Well No. Bug #9
Sec. 18, T. 36S, R. 26E
San Juan County, Utah

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Winters

WELL NAME: Brig #9

SECTION ¹⁸ 18 TOWNSHIP 36S RANGE 26E COUNTY J.D.

DRILLING CONTRACTOR Amphac

RIG # 4

SPUDED: DATE 10-9-81

TIME 3:00 PM

How Rotary

DRILLING WILL COMMENCE _____

REPORTED BY Paul Zubatch

TELEPHONE # (307) 382-9791

DATE 10-9-81 SIGNED DB

NOTICE OF SPUD

Wenpro

Caller:

Paul Zubatch

Phone:

Well Number:

#9

Location:

NENE

18-36S-20

County:

San Juan

State:

Utah

Lease Number:

U-45927

Lease Expiration Date:

Unit Name (If Applicable):

Date & Time Spudded:

10-9-81

3:00 A.

Dry Hole Spudder Rotary:

Details of Spud (Hole, Casing, Cement, etc.)

40' — 12 1/4"

drlg ± H₂O

Rotary Rig Name & Number:

Arapahoe Org #4

Approximate Date Rotary Moves In:

FOLLOW WITH SUNDRY NOTICE

Call Received By:

KR

Date:

10-9-81

RECEIVED
OCT 13 1981
DIVISION OF
OIL, GAS & MINING



Décollement Consulting, Inc.

Denver, Colorado

COMPANY: WEXPRO COMPANY

WELL: BUG WELL NO. 9

Location: NE, NE, Sec. 18, T36S, R26E

State: San Juan Co., Utah

Depth Logged From: 4000' To: 5822'

Date Logged From: 10/15/81 To: 10/25/81

Geologist: M.C. Meeker

Drilling Fluid: Water / LSND

DRILLING LEGEND

NB New Bit
RRB Rerun Bit
DB Diamond Bit
TB Turbo Bit
CB Core Bit
DCB Diamond Core Bit
DS Deviation Survey
W/B Weight on Bit
RPM Rotation (Rev./Min.)
LC Lost Circulation
NR No Returns
TG Trip Gas
PP Pump Pressure

ENGINEERING LEGEND

Core No. 1
Recovery 95%
Drill Stem
Test No. 1

MUD DATA

V Viscosity
W Weight in lbs./gal.
WL Filtrate in cc
FC Filter Cake
CL Chloride Content (ppm)
Rm Mud Resistivity (Ω)
Rmf Mud Filtrate Resistivity (Ω)

OIL SHOWS — Stain Present

Even staining
Fluoresces in solvent
Spotted staining
Fluoresces in solvent
Dead
Asphaltic, bitumen, etc.
Questionable
No fluorescence in solvent

LEGEND

Use exclusively American Stratigraphic Service Symbols

Conglomerate
Sand
Siltstone
Shale
Limestone
Dolomite
Anhydrite
Gypsum
Coal
Chert
Salt
Bentonite
Siliceous
Igneous
Volcanic
Metamorphic

GAMMA RAY

Drilling Rate (Min./Ft.)

% Lithology

Depth

Porosity

Interpreted
Lithology

Crystal, Grain or
Fragment Size

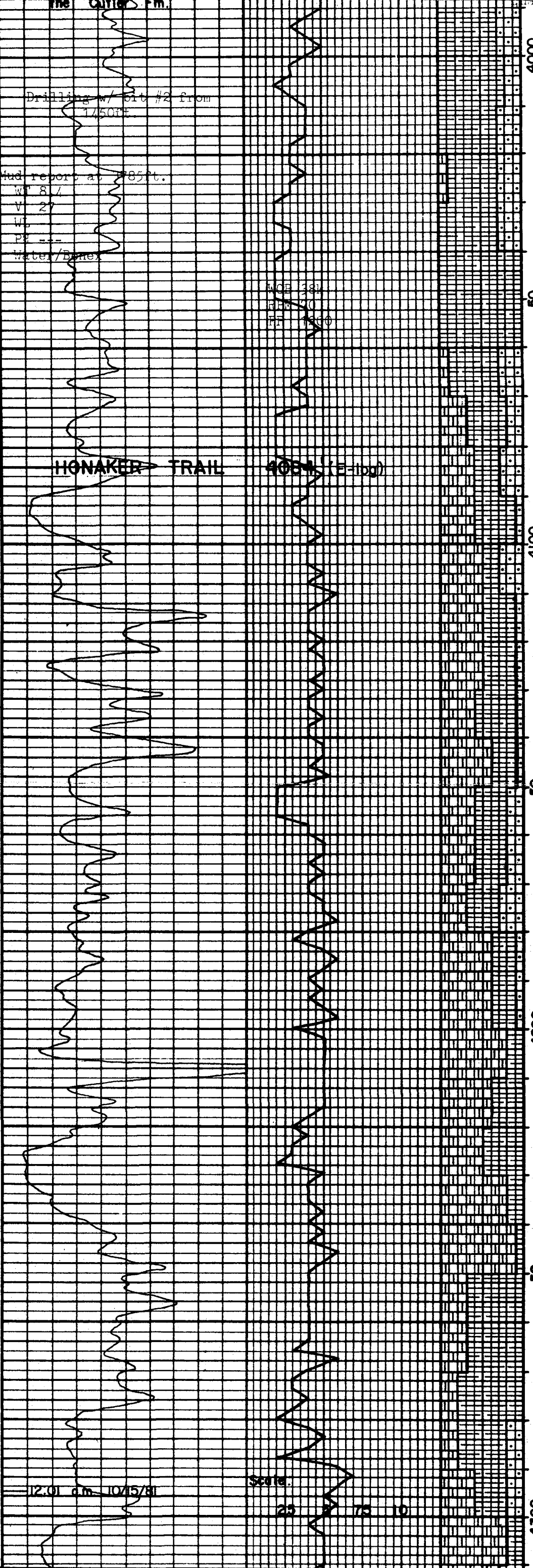
GEOLOGICAL COMMENTS

API Units

Scale: Min./2Ft.

2.5 5 7.5 10

Began logging Oct 15 1981 in Drilling w/ water poor to very poor sample



Drilling w/ bit #2 from 1450 ft.

Mud report at 485 ft.

WT 8.4

V 27

W

PT

Water/Daney

WCE 380
EPA 200
PT 1200

HONAKER TRAIL 4034 (E-100)

12.01 c.m. 10/15/81

Scale

25 75 100

SS:pred vf-m unconsl qtz gr:
clr-transl,occ lt org,ang-
sb rdd;occ rd org vf-f gr
cons sd w/ cly cmt,sme calc,
mod srt,por uncert,sme tt,
NSFOC
SH:rd org,pale gn,blky,sme
sb wxy,v slty&grdg to sltst
ip,sl-v micmica,mnr vgt sh

SS:A/A,mnr pale gn vf gr cons
sd w/ cly&calc cmt,occ w rd
unconsl qtz gr

SH:A/A,sme bf&lav

LS:wh,occ lt org,lt-m gybrn
ip,pred earthy-chky,micxl
ip,sft-v frm,tt,NSFOC

SS:A/A,occ rd org vf-f gr
cons arg sd,mnr wh calc
cons sd

LS:bf-lt brn,wh ip,micxl,
earthy-chky,mnr crpxl,sft-
v frm,occ abnt biocl,tt,
NSFOC

SH:A/A

LS:A/A,abnt ool,bcmg an ool
ls ip

LS:bf-wh,occ lt brn,v ool,
micxl ip,mnr crpxl&chky ls,
frm,sme sft,tt,NSFOC

SH:rd org,gngy,blky,sb wxy
ip,slty-v slty&grdg to sltst
ip,occ sl calc w/ sme mrlly,
frm

LS:A/A

SS:pred vf-m unconsl qtz gr:
clr-transl,occ lt org,ang-
sb rdd,p-mod srt,por uncert,
NSFOC

LS:A/A,mnr ool

SH:A/A,m-dk gy ip,rr sl calc

SS:A/A,sme vf gr,mnr resid
calc&cly cmt

LS:A/A,influx of lt-m brn ls
SS:A/A

LS:bf-lt brn,occ m brn,micxl,
occ crpxl,sl dol,frm,tt,NSFOC

SH:rd org,gngy,m-dk gy,blky,
mnr sb wxy,frm,sme slty&sl
micmica

LS:A/A,occ earthy&sl arg,sme
m-dk gy&grdg to mrlst,sl
mica

SH:m brn,rd org,mnr pale gn
blky,rr sb wxy,abnt v mic-
mica sh,frm,sme sl calc

LS:A/A,occ lt org< brn ch
frag

SH:A/A,v slty&grdg to sltst

SS:bf,s&p,vf gr,sbang-sbrdd
pred cly cmt,occ calc,tt,
NSFOC

LS:bf-lt brn,m brn,micxl,
earthy-chky,occ fxl,sme v
arg&sd,frm,tt,NSFOC

LS:bf-wh,lt brn,crp-micxl,sme
earthy sft,frm,calc

por, NSFOC

SH:rd org, occ m gy&m brn, sme
m-dk gy&v micmica sh, frm

LS:A/A, rr m-dk brn

SS:bf, vf-f gr, occ m gr, sbang
-sbrdd, pred uncon, sme cmt
w/ calc, fri, tr p intgran por
LS:lt brn, bf, occ m brn, micxl,
earthy-chky, sft-frm, NSFOC
SS:A/A, bcmg pred cons, occ
biot flks, fri-frm, occ m-c
uncons gr
SH:rd org, m brn, m-dk gy ip,

SS:bf, vf-f gr, sbang-sbrdd,
calc cmt, fri, wsrt, occ sl arg,
occ uncon f-m gr, tt, NSFOC

SH:A/A, pred rd org&ngy

LS:bf-wh, lt brn, rr m brn, crp-
micxl, earthy ip, sme chky, frm,
occ sft, sme v arg&grdg to
calc sh, tt, NSFOC

SH:A/A, abnt m-dk gybrn ls
grdg to calc sh ip, micmica

LS:A/A, occ sdy

SH:A/A

SS:bf-wh, vf-f gr, abnt f-m
uncons gr, sbang-sbrdd, sil&
cly cmt, sme calc, frm, occ
fri, tt, NSFOC

SH:rd org, gngy, sme rd brn&m-
dk gybrn-blky, occ sb wxy,
sme mrly, slty&micmica ip,
frm, occ sdy ip

SS:A/A

SS:lt-m brn, bf ip, vf-f gr, sb-
ang-sbrdd, calc&cly cmt, mod-
wsrt, occ f-m uncon qtz gr
fri-frm, tt, NSFOC

SH:rd org, gngy, m-dk brn, blky,
occ slty&micmica, sme mrly

SS:A/A

SH:A/A, occ stngs ls

LS:bf-wh, lt brn, crp-micxl,
frm, sme dns, tt, NSFOC

LS:A/A, sme earthy-chky

LS:A/A

SS:bf-lt brn, vf-f gr, sbang-
sbrdd, calc&cly cmt, sl-v arg,
fri-frm, occ uncon f-m qtz
gr

SS:A/A, bcmg pred f-m uncon
ang-sbrdd qtz gr, resid gn
cly cmt

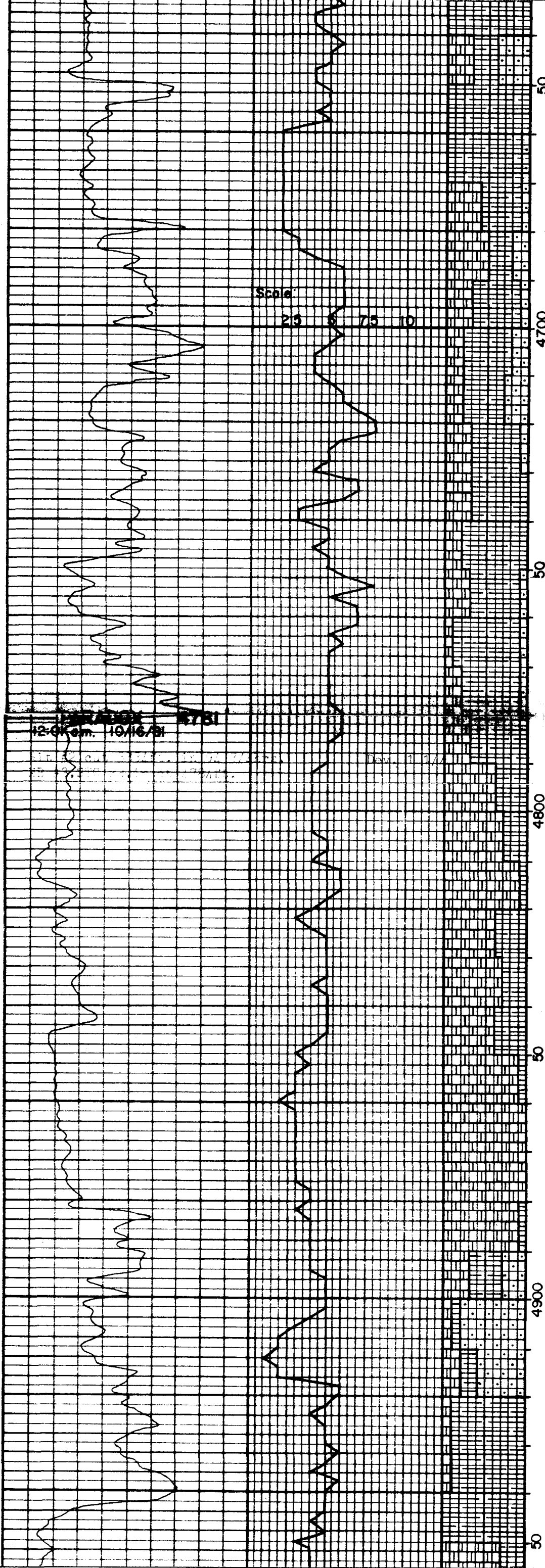
LS:bf-wh, lt brn, micxl, earthy,
frm, tt, NSFOC

SH:lt-m gy, rd org, occ gngy,
blky, sl calc-occ mrly,
sl-v micmica, sme slty, frm

LS:A/A, bf-lt gy ip, occ chky

WOB 885
LTH 12
PP 1250

Ind report at 4584ft.
W 8.7
V 27
W 1
PH 10.5
Water/Bene



LS:lt-occ m brn,sme bf,micxl,
mnr crpxl,frm,tt,NSFOC

SH:rd org,gngy,rd brn ip,blky,
rr sl micmica,sme sb wxy&
sl sdy

SS:pred f-m unconc qtz gr;
clr-transl,sbang-sbrdd,mnr
resid cly cmt,por uncert,
NSFOC

LS:bf-lt brn,occ lt gy,micxl,
sme fxl&crpxl,frm,tt,NSFOC

SH:rd org,m-dk gybrn&v mic-
mica,blky,frm,sme slty&occ
sd,sl calc ip

SS:A/A,mnr cons sd

SH:A/A

LS:lt brn,lt gy,sme bf,micxl,
occ f-mxl,frm,tt,NSFOC

LS:A/A,occ lt-m brn,sme wh&
earthy-chky ls
SH:m-dk gybrn&v micmica,rd
org,blky,occ slty&sl micmica,
occ v abnt biot fiks,sme sl
calc

SH:A/A,mnr apple gn sh

SH:A/A,sme v sdy sh,grdg to
an arg ss ip,occ slty-v slty

SH:rd org,gngy,influx of m-
dk gy&sl calc sh,blky,
occ slty&sd,wb wxy ip

LS:m-dk gybrn,occ lt brn,
micxl,sme v arg&grdg to calc
sh,frm-occ v frm,tt,NSFOC

LS:A/A,pred m-dk gybrn&v arg
ls as abv,sl micmica

LS:bf-lt brn,crp-micxl,occ
earthy,frm-v frm,one sft,
occ brit,dns ip,tt,NSFOC

SH:A/A

LS:m-dk gybrn,micxl,pred v
arg&grdg to calc sh,sl mic-
mica,mod sft-frm,tt,NSFOC

SH:A/A

LS:lt brn,bf ip,crp-micxl,
sme earthy,tr mxl ls,mod sft
-occ v frm,dns ip,tt,NSFOC

LS:A/A,sme arg ls as abv

LS:A/A

SH:pred rd org,occ m-dk gybrn
&grdg to arg ls,sme rd brn
m brn v micmica ch,blky,frm

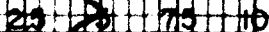
SS:lt gngy,lt brn,vf-occ f
gr,sbang,calc&cly cmt,fri,
micmica ip,occ biot;abnt f-
m unconc qtz gr,no vis por
por uncert ip,NSFOC

SH:mbrn& v micmica,rd org ip,
sme gngy,blky,sme mrlly,occ
slty,frm

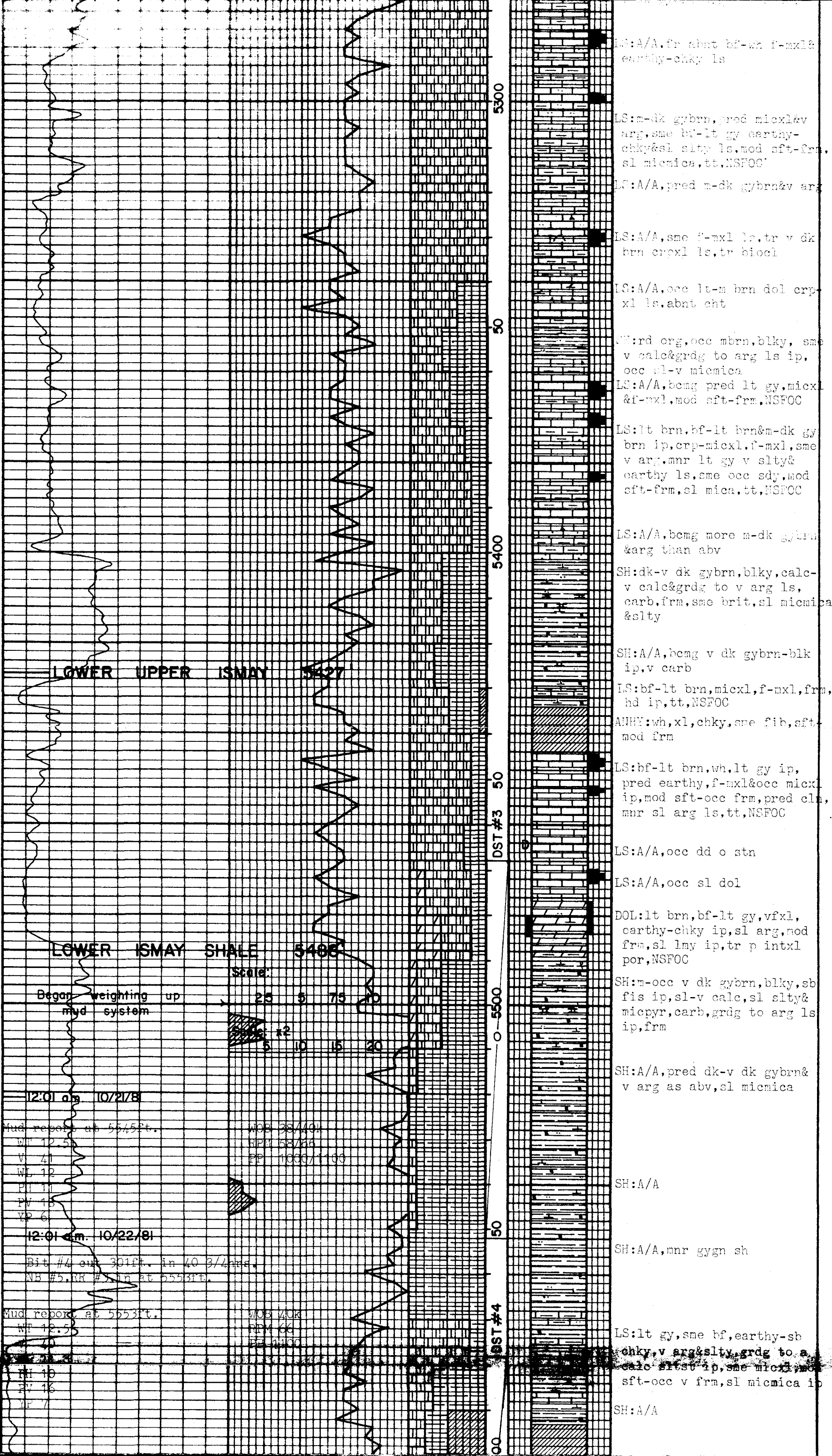
SH:A/A,pred abrn& v micmica

LS:bf-lt brn,sme wh&crp-micxl,

0:A/A, pred It gy slty 2a&



UPPER 15MAY 3240



LOWER UPPER ISMAY 5327

LOWER ISMAY SHALE 5485

Began weighting up mud system

12:01 am 10/21/81

Mud report at 5545ft.

WT 12.5
V 41
WL 12
PI 11
PV 18
VP 6

12:01 am 10/22/81

Bit #4 out 301ft. in 40 3/4 hrs.
NB #5, NR #5 in at 5553ft.

Mud report at 5553ft.

WT 12.5
V 41
WL 12
PI 11
PV 18
VP 6

MOB 28/40K
RPM 58/88
PP 1000/1100

MOB 40K
RPM 66
PP 1100

DST #3

0-5500

50

DST #4

00

LS:A/A, fr abnt bf-wh f-mxl& earthy-chky ls

LS:m-dk gybrn, pred micxl&v arg, sme bf-lt gy earthy-chky&sl slty ls, mod sft-frn, sl micmica, tt, NSFOC

LS:A/A, pred m-dk gybrn&v arg

LS:A/A, sme f-mxl ls, tr v dk brn crpxl ls, tr biocl

LS:A/A, occ lt-m brn dol crpxl ls, abnt cht

SH:rd org, occ mbrn, blk, sme v calc&grdg to arg ls ip, occ sl-v micmica

LS:A/A, beng pred lt gy, micxl &f-mxl, mod sft-frn, NSFOC

LS:lt brn, bf-lt brn&m-dk gy brn ip, crp-micxl, f-mxl, sme v arg, mnr lt gy v slty& earthy ls, sme occ sdy, mod sft-frn, sl mica, tt, NSFOC

LS:A/A, beng more m-dk gybrn &arg than abv

SH:dk-v dk gybrn, blk, calc-v calc&grdg to v arg ls, carb, frm, sme brit, sl micmica &slty

SH:A/A, beng v dk gybrn-blk ip, v carb

LS:bf-lt brn, micxl, f-mxl, frm, hd ip, tt, NSFOC

ANHY:wh, xl, chky, sme fib, sft-mod frm

LS:bf-lt brn, wh, lt gy ip, pred earthy, f-mxl&occ micxl ip, mod sft-occ frm, pred cln, mnr sl arg ls, tt, NSFOC

LS:A/A, occ dd o str

LS:A/A, occ sl dol

DOL:lt brn, bf-lt gy, vfxl, earthy-chky ip, sl arg, mod frm, sl lmy ip, tr p intxl por, NSFOC

SH:m-occ v dk gybrn, blk, sb fis ip, sl-v calc, sl slty& micpyr, carb, grdg to arg ls ip, frm

SH:A/A, pred dk-v dk gybrn&v arg as abv, sl micmica

SH:A/A

SH:A/A, mnr gygn sh

LS:lt gy, sme bf, earthy-sb chky, v arg&slty, grdg to a calc sftst ip, sme micxl, mod sft-occ v frm, sl micmica ip

SH:A/A

LOWER ISMAY 0 5610'

Bit #5 cut 77ft. in 12 3/4 hrs.
NB #6, RR #3, in at 5630ft.

"B" ZONE SHALE 5624'

12:01 a.m. 10/23/81

Mud report at 5630ft.

WT 12.6 WL 10

V 44 PV 22

WL 12.4 PP 10

WOB 40K

RPM 52

PP 1000

12:01 a.m. 10/24/81

Mud report at 5677ft.

WT 12.5 WL 10 PV 18

V 41 PP 10 SYP 7

DESERT CREEK 5678'

WOB 40K

RPM 52

PP 1000

WOB 40K

RPM 52

PP 1000

LOWER BENCH 5729'

DESERT CREEK 0 5735'

auto-driller
went out; drill rate
may not be representative

AKAH 5781'

12:01 a.m. 10/25/81

Mud report at 5827ft.

WT 12.5 WL 12.0

V 45 PP 10.5

SALT 5819'

Bit #6 cut 197ft. to F.D.

T.D. at 11:05 a.m. 10/25/81

Driller's T.D. 5827'

Schlumberger's T.D. 5822'

Michael D. Meeker

Michael E. Parker

ANHY:wh, chky, slky, ooc xl,
pred sft&gummy, sme mod frm

LS:bf,lt gy-m gybrn ip,earthy
&vfxl,mnr f-mxl,sl-v dol,sme
grdg to a lmy dol,sme arg,
fri-frn,tr dd o stn,mnr 7-
9% intxl por,sme tt,NSFOC
SH:dk-v dk gybrn,occ m gybrn,
blky,rr sb fis,sl-v csic,frm,
carb,occ sl slty,mnr miclan
of ls

SH:A/A,pred v dk gybrn&v carb

LS:bf,lt brn,earthy,v sdy w/
sme grdg to a v calc vf gr
ss,occ grdg to a calc sltst,
p intgran por,sme tt,NSFOC
ANHY:wh, chky,mnr xl,sft-mod
frm,gummy ip
LS:bf-lt gybrn,mot,earthy,arg
&slty,sme v slty,mod sft-frn,
abnt anhy incl,rr sl micmica
LS:A/A,lt-m brn&f-mxl ip,sme
micxl,tr biocl

DOL:bf-lt gybrn,earthy,arg&
slty,mnr micxl dol,mod sft-
frm,tt,NSFOC
ANHY:A/A

DOL:bf-lt gybrn,occ lt brn,
pred micxl,earthy&slty ip,
occ f-mxl,frm-hd,sme dns,p
-occ fr vug&intxl por,sme
tt,sme blk dd bit infllg
por,euhed xl sug pos of lrg
vugs,occ anhy incl,NSFOC

SH:v dk gybrn-blk,blky,carb,
sl-v calc,sl slty,mod frm,
anhydrous,gummy,sl micmica

DOL:bf-lt brn,gybrn ip,vf-occ
mxl,micxl ip,frm-hd,sl lmy,
cln,fr-rr g intxl por,sme tt,
occ euhed xls sug pos lrg
vugs,mnr blk dd bit,NSFOC

LS:bf-lt brn mot,f-mxl,sb
earthy ip,mnr micxl,mod frm-
frm,tr biocl,tt,NSFOC

DOL:A/A,sme bf-wh,more abnt
lt brn micxl&dns dol than
abv,tr biocl,occ anhy incl

SH:A/A,sme dol

SALT:not seen in spls;ident-
ified by characteristic
drill rate

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYForm Approved
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ gas ☐
well well other

2. NAME OF OPERATOR

Wexpro Company

3. ADDRESS OF OPERATOR

P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: NE NE 497' FNL, 870' FEL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐CHANGE ZONES ☐ABANDON* ☐

(other) "As graded" elevation change - see #15

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Subsurface Safety Valve: Manu. and Type _____

18. I hereby certify that the foregoing is true and correct

SIGNED

A. J. Moser

TITLE Drlg Supt.

DATE

Oct 19 1973

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Wexpro Company
3. ADDRESS OF OPERATOR
P. O. Box 1129, Rock Springs, Wyoming 82901
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: NE NE 497' FNL 870' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) Supplementary History <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

5. LEASE
U - 45927
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
-
7. UNIT AGREEMENT NAME
-
8. FARM OR LEASE NAME
Bug
9. WELL NO.
9
10. FIELD OR WILDCAT NAME
Bug
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
18-36S-26E., SLB&M
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-30604
15. ELEVATIONS (SHOW DF, KDB, AND WD)
KB 6046.20' GR 6032'

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TD 5827', rig released October 26, 1981 at 4:00 p.m., WOCT.
Spudded October 9, 1981 at 3:00 a.m., landed 9-5/8", 36#, K-55, 8rd thd, ST&C casing at 1419.70' KBM, set with 475 sacks class G cement with 2% calcium choride and 300 sacks class G with 3% calcium chloride, cement in place 10-11-81.
DST #1: 5145-5202', Paradox, mis-run, tool plugged.
DST #2: 5145-5202', Paradox, IO 1/2 hr, ISI 1 hr, FO 1 hr, FSI 2 hrs, opened weak on both openings, no gas, recovered 270' mud, IHP 2336, IOFP's 93-120, ISIP 375, FOFP's 402-429, FSIP 1201, FHP 2336.
DST #3: 5468-5550', Lower Upper Ismay, IO 20 mins, ISI 1 hr, FO 1 hr, FSI 2 hrs, opened weak on both openings, no gas, recovered 90' mud, IHP 3560, IOFP's 41-54, ISIP 149, FOFP's 81-95, FSIP 149, FHP3560.
DST #4: 5578-5631', Lower Upper Ismay, IO 1/2 hr, ISI 1 hr, FO 1 1/2 hrs, FSI 3 hrs, opened weak, no gas, reopened, gas not enough to gauge, recovered 400' gas cut mud, IHP 3624, IOFP's 53-161, ISIP 429, FOFP's 107-161, FSIP 2124, FHP 3628.
Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Lee Martin TITLE Asst Drlg Supt DATE 10-27-81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐

2. NAME OF OPERATOR
Wexpro Company

3. ADDRESS OF OPERATOR
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: NE NE 497' FNL 870' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☐
☒

(other) Supplementary History

RECEIVED
JAN 11 1982
DIVISION OF
OIL, GAS & MINERAL
RESOURCES

5. LEASE U - 45927

6. IF INDIAN, ALLOTTEE OR TRIBE NAME -

7. UNIT AGREEMENT NAME -

8. FARM OR LEASE NAME Bug

9. WELL NO. 9

10. FIELD OR WILDCAT NAME Bug

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 18-36S-26E., SLB&M

12. COUNTY OR PARISH San Juan 13. STATE Utah

14. API NO. 43-037-30604

15. ELEVATIONS (SHOW DF, KDB, AND WD)
KB 6046.20' GR 6032'

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TD 5827', PBD 5777', rigged up work over unit on 11-19-81, perforated with 2 holes per foot from 5734' to 5748', released rig on 11-20-81.

Landed 5-1/2", 17#, K-55, 8rd thd, LT&C casing at 5820.05' KBM, set with 850 sacks 50-50 Pozmix treated with 2% gel, floating equipment held OK, cement in place at 5:30 p.m. on 10-26-81, landed 2-7/8" tubing at 5626.39.

At end of test well was making 920 barrels of oil and 1374 Mcf of gas per day through 16/64" choke, FTP 1750, CP 1825, no water.
Final report.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Pat D. Bratterton TITLE Dir. Supt. DATE 1-6-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	Other _____		
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other _____
2. NAME OF OPERATOR Wexpro Company							
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface NE NE 497' FNL, 870' FEL At top prod. interval reported below At total depth							
14. PERMIT NO. 43-037-30604				DATE ISSUED 10-15-80			
15. DATE SPUDDED 10-9-81		16. DATE T.D. REACHED 10-25-81		17. DATE COMPL. (Ready to prod.) 12-30-81		18. ELEVATIONS (DF, REB, RT, GR, ETC.)* KB 6046.20' GR 6032'	
19. ELEV. CASINGHEAD -		20. TOTAL DEPTH, MD & TVD 5827		21. PLUG, BACK T.D., MD & TVD 5777'		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DEEPENED		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5734 - 5748', Desert Creek		25. WAS DIRECTIONAL SURVEY MADE No		26. TYPE ELECTRIC AND OTHER LOGS RUN DIL, CNL/FDC	
27. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	AMOUNT PULLED			
9-5/8	36	1,419.70	12-1/4	775	0		
5-1/2	17	5,820.02	8-3/4	850	0		
28. LINER RECORD							
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)			
29. TUBING RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8	5,626.39	
31. PERFORATION RECORD (Interval, size and number) 5734-5748', jet, 2 holes per foot				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
33. PRODUCTION							
DATE FIRST PRODUCTION 12-29-81		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or shut-in) Shut in	
DATE OF TEST 12/29-30/81	HOURS TESTED 12	CHOKE SIZE 16/64	PROD'N. FOR TEST PERIOD →	OIL—BBL. 920	GAS—MCF. 1,374	WATER—BBL. 0	GAS-OIL RATIO 1493:1
FLOW. TUBING PRESS. 1750	CASING PRESSURE 1825	CALCULATED 24-HOUR RATE →	OIL—BBL. 920	GAS—MCF. 1,374	WATER—BBL. 0	OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented while testing						TEST WITNESSED BY	
35. LIST OF ATTACHMENTS Logs as above							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED James G. Smith		TITLE Director, Petroleum Engrg				DATE Jan. 6, 1982	

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
				Log tops:			
				Morrison	0'		
				Cutler	2,356		
				Honaker Trail	3,996		
				Paradox	4,780		
				Lower Upper			
				Ismay	5,425		
				B Zone	5,622		
				Desert Creek	5,677		
				Salt	5,819'		

38. GEOLOGIC MARKERS



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

January 15, 1982

Wexpro Company
P. O. Box 1129
Rock Springs, Wyoming 82901

Re: Well No. Bug #9
Sec. 18, T. 36S, R. 26E
San Juan County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and also all drilling information on this well is needed to be forwarded to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse
Clerk Typist

COMPLETION REPORT

Well: Bug #9 Date: July 14, 1982

Area: Bug Field Lease No: U-45927

☐ New Field Wildcat ☒ Development Well ☐ Shallower Pool Test

☐ New Pool Wildcat ☐ Extension ☐ Deeper Pool Test

Location: 497 feet from North line, 870 feet from East line, NE 1/4 NE 1/4

Section 18, Township 36 South, Range 26 East

County: San Juan State: Utah

Operator: Wexpro

Elevation: KB 6046.2' GR 6032' Total Depth: Driller 5827' Log 5822'

Drilling Commenced: October 9, 1981 Drilling Completed: October 25, 1981

Rig Released: October 26, 1981 Well Completed: December 30, 1981

Sample Tops: (unadjusted)

Honaker Trail	4085'
Paradox	4780'
Upper Ismay	5251'
Lower Upper Ismay	5434'
Lower Ismay Shale	5490'

Log Tops:

Morrison	Surface
Cutler	2356'
Honaker Trail	3996'
Paradox	4780'
Lower Upper Ismay	5425'
"B" Zone	5622'
Desert Creek	5677'
Akah	5781'
Salt	5819'

Sample Cuttings: 10' samples 3800-5728'
1 dry to SLC
1 wet cut to Amstrat-Denver

Status: Shut-In Oil Well

Producing Formation: Desert Creek

Perforations: 5734-5748'

Stimulation: None

Production: 920 BOPD, 1374 MCFD, 0 BWPD

Plug Back Depth: 5777'

Plugs: None

Hole Size: 12-1/4" Surface-1450'
8-3/4" 1450-5827'

Casing/Tubing: 9-5/8", 36# @ 1419', 5-1/2", 17# @ 5820', 2-3/8" @ 5626'

Logging - Mud: Smith Mud Logging 3800-5828'

Mechanical: Schlumberger 1394-5816'

Contractor: Arapahoe Drilling Company Rig #4

Completion Report Prepared by: Roger W. Fallon

Remarks: API #43-037-30604

Well location was re-surveyed by company survey party, Elevation correction of 14 feet was made in elevation. GR 6032' not 6036' as reported on original loc. plat

RECEIVED
AUG 17 1982

DIVISION OF
OIL, GAS & MINING

COMPLETION REPORT (cont.)

Page 2

Well: Bug #9

Area: Bug Field

Cored Intervals (recovery): No Cores

Tabulation of Drill Stem Tests:

<u>No.</u>	<u>Interval</u>	<u>IHP</u>	<u>IFP (min.)</u>	<u>ISIP (min.)</u>	<u>FFP (min.)</u>	<u>FSIP (min.)</u>	<u>FHP</u>	<u>Samples Caught</u>	<u>Remarks</u>
1	5145-5202'								
2	5145-5202'	2331	100-123 (30)	1243 (60)	---	---	2303	Mud	Misrun - tool plugged NGTS, rec 270' mud, tools didn't open for final flow
3	5468-5552'	3569	37-55 (20)	151 (60)	81-89 (60)	148 (120)	3566		NGTS, rec 90' mud
4	5578-5630'	3672'	71-190 (24)	473 (62)	130-199(91)	2163 (178)	3661	Gas, mud	GTS, NETG, rec 400' GCM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-45927
2. NAME OF OPERATOR Wexpro Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME POW
3. ADDRESS OF OPERATOR P. O. Box 458, Rock Springs, Wyoming 82902		7. UNIT AGREEMENT NAME ---
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE NE, 497' FNL, 870' FEL		8. FARM OR LEASE NAME Bug
14. PERMIT NO. 43-037-30604		9. WELL NO. 9
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6032'		10. FIELD AND POOL, OR WILDCAT Desert Creek
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 36 18-26S-26E, SLB&M
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Well Shut-in Status <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above captioned well was produced from 1981-1986. The well produced 28 BOPD, 50 MCFPD and 600 BWPD. When oil prices declined in 1986, the well became uneconomic to continue to produce. The well was shut-in and has been reviewed periodically as oil prices increased. To date, the well is still uneconomic to produce and is shut-in. The Wexpro Company requests that a "Long Term" shut-in status be given to the well until oil prices increase to the point that the well can be produced economically. Should there be a need for additional information, please advise.

SEP 25 1987

DIVISION OF OIL
GAS &

18. I hereby certify that the foregoing is true and correct

SIGNED Robert L. Rasmussen TITLE Staff Engineer DATE 9/23/87

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(Other instructions
reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO

U-45927

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Bug

9. WELL NO.

9

10. FIELD AND POOL, OR WILDCAT

Desert Creek

11. SEC., T., R., M., OR B.L. AND
SURVEY OR AREA

18-36S-26E, SLB&M

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

SUNDRY NOTICES AND REPORTS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED
SEP 29 1988

1. OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR

Wexpro Company

3. ADDRESS OF OPERATOR

P. O. Box 458, Rock Springs, Wyoming 82902

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

NE NE, 497' ENL, 870' FEL

14. PERMIT NO.

219

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

43-037-30604

GR 6032'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other)

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

Well Shut-in Status ☒

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above captioned well was produced from 1981 - 1986. The well produced 28 BOPD, 50 MCFPD and 600 BWPD. When oil prices declined in 1986, the well became uneconomic to continue to produce. The well was shut-in and has been reviewed periodically as oil prices increased. To date, the well is still uneconomic to produce and is shut-in. The Wexpro Company requests that a "Long Term" shut-in status be given to the well.

Wexpro Company has proposed plugging said well to the partners. Approvals are not anticipated in time to perform the plugging during 1988. Notice will be sent upon approvals and when plugging plans are being formulated. Should you need additional information, please advise.

18. I hereby certify that the foregoing is true and correct

SIGNED

H.R. Egan

TITLE District Manager

DATE 9/27/88

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instruction
verse side)

Form approved.
Budget Bureau No. 1004 0125
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Wexpro Company

3. ADDRESS OF OPERATOR

P. O. Box 458, Rock Springs, Wyoming 82902

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirement. See also space 17 below.)
At surface

NE NE, 497' FNL, 870' FEL

14. PERMIT NO.

43-037-30604

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

GR 6032'

RECEIVED
OCT 13 1988

DIVISION OF
OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.

U-45927

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

UNIT AGREEMENT NAME

TERM OR LEASE NAME

8. WELL NO.

9

10. FIELD AND POOL, OR WILDCAT

Desert Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

18-36S-26E, SLB&M

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Wexpro Company proposes to plug and abandon the above captioned well as follows:

1. Kill the well with 11.4 ppg Calcium Chloride water (on location) (Nalco 1153 corrosion inhibitor needs to be mixed into the Calcium Chloride water at two gallons per 100 barrels).
2. Set a cast iron bridge plug at 5720 feet KBM and pressure test to 1500 psi.
3. Set a 100 foot cement plug on top of the bridge plug.
4. Perforate the 5-1/2-inch casing at 1470 feet KBM.
5. Set a cement retainer at 1370 feet. Circulate cement up the 5-1/2-inch x 9-5/8-inch annulus.
6. Remove wellhead and casing head. Cut off casing at ground level.
7. Set a 50 foot cement plug at surface and install a regulation dry hole marker.
8. Reclaim location according to stipulations provided by the Bureau of Land Management.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

District Manager

DATE

10/7/88

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

Federal approval of this action
is required before commencing
operations.

*See Instructions on Reverse Side

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE 10-18-88
BY: John R. Day

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PERMIT IN TRIPLICATE
(Other instructions
verse side)

Form Approved
Budget Bureau No. 1004-0135

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-45927	
2. NAME OF OPERATOR Wexpro Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---	
3. ADDRESS OF OPERATOR P. O. Box 458, Rock Springs, Wyoming 82902		7. UNIT AGREEMENT NAME ---	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface NE NE, 497' FNL, 870' FEL		8. NAME OR LEASE NAME Bug	
14. PERMIT NO. 43-037-30604		9. WELL NO. 9	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6032'		10. FIELD AND POOL, OR WILDCAT Desert Creek	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 18-36S-26E, SLB&M	
		12. COUNTY OR PARISH San Juan	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

The above referenced well was plugged on 12/18-20/88. The well was plugged as follows and in the presence of Mr. Wade of the Monticello BLM office.

1. Killed well with 11.5 ppg calcium chloride water.
2. Set a cast iron bridge plug at 5712' KBM.
3. Pressure tested the bridge plug and casing to 1800 psi for 15 minutes.
4. Spotted 15 sacks of cement on the bridge plug.
5. Perforated at 1470' KBM with four holes.
6. Set a cement retainer at 1370' KBM.
7. Circulated 290 sacks of cement to surface up the 9-5/8-inch by 5-1/2-inch annulus.
8. Pumped a 60 foot plug of cement in the top of the 5-1/2-inch casing.
9. Cut off flanges and deadmen.
10. Reclamation will occur when possible.

18. I hereby certify that the foregoing is true and correct

SIGNED H. R. Logan TITLE District Manager DATE 12-23-88

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

MEMO TO WELL FILE

July 10, 1991

These wells are PA'd and have received a final abandonment notice from the BLM:

<u>NAME/API</u>	<u>LOCATION</u>	<u>FAN DATE</u>
Cherokee Fed 23-14 43-037-31392	Sec. 14 T. 37S R. 23E	5-20-91
8807 JV-P Havasu #1 43-037-31435	Sec. 01 T. 38S R. 23E	5-22-91
Dec Federal #1 43-037-31366	Sec. 10 T. 38S R. 24E	5-22-91
Brusheart Fed #1 43-037-31379	Sec. 17 T. 38S R. 24E	5-22-91
Black Steer Fed 7-25 43-037-31461	Sec. 25 T. 38S R. 24E	5-22-91
Wexpro-9 43-037-30604	Sec. 18 T. 36S R. 26E	6-11-91
Muckleshoot Fed 15-32 43-037-31380	Sec. 15 T. 38S R. 25E	6-11-91